

Exhibit A

Ordinance Permit 20250020303



SAINT PAUL
PUBLIC WORKS

DEPARTMENT OF PUBLIC WORKS
SEAN KERSHAW, DIRECTOR

25 West 4th Street, 1500 City Hall Annex
Saint Paul, MN 55102
Tel: 651-266-6100 | Fax: 651-266-6222

Certificate of Compliance

I hereby certify that work completed under this Ordinance Permit and materials provided for installation conform to the appropriate specifications and provisions of the current State of Minnesota Department of Transportation *Standard Specifications for Construction* and the Department of Public Works, City of Saint Paul, Minnesota, *Standard Supplemental Specifications for Construction*, as amended, and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signage for Winthrop St N from Ivy Avenue E through Arlington Avenue East; Howard Street N from Ivy Avenue E through Arlington Avenue E, Cottage Avenue E from Winthrop Street N to Howard Street N, and Ivy Avenue E from Winthrop Street N to McKnight Road. - OP 20243030007

Project Description

License No. 59517

10-08-2025

(Signature and License No.)

Date

Bolton and Menk for Saint Paul Port Authority

Organization (Print)

THE HEIGHTS SITE REDEVELOPMENT

(AKA HILLCREST GOLF COURSE)

ORDINANCE PERMIT 20

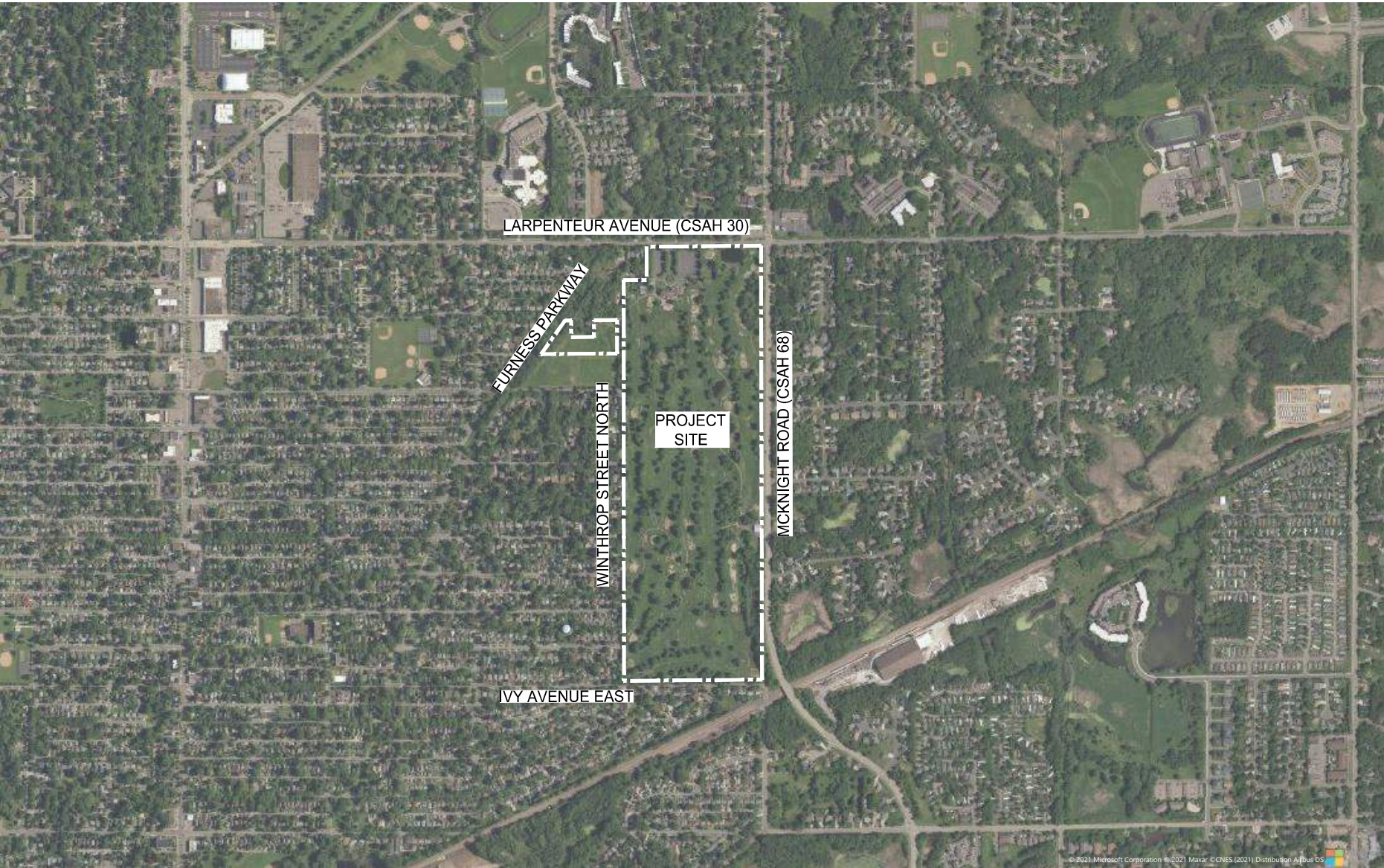
20250020303

AS-BUILTS

2200 Larpenteur Avenue East, St. Paul, Minnesota

WSB Project Number013987-000

Issue Date09-23-2024; 100% PLAN REVISION 6 (CITY REVIEW COMMENTS) 6



1 PROJECT LOCATION MAP

SCALE: NOT TO SCALE

THE SUBSURFACE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF PRIVATE UTILITIES HAS BEEN DESIGNATED UTILITY QUALITY LEVEL D. THESE QUALITY LEVELS WERE DETERMINED ACCORDING TO THE GUIDELINES OF C/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE DATA". THE CONTRACTOR IS TO DETERMINE THE TYPE AND LOCATION OF PRIVATE UTILITIES AS MAY BE DEEMED NECESSARY TO AVOID DAMAGE THERETO.

I HEREBY CERTIFIED THAT THIS RECORD DRAWING HAS BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. THIS DRAWING HAS BEEN PREPARED IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, BOLTON & MENK, INC. CANNOT ASSURE ITS ACCURACY. THOSE RELYING ON THIS DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

Ashleigh K. Rosa

ASHLEIGH K ROSA
LICENSE #: 59517

10-08-2025

DATE

CONTRACTOR:
DESIGNING EARTH CONTRACTING
1282 187th Ln NE
East Bethel, MN 55011

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-3	STATEMENT OF ESTIMATED QUANTITIES
4-9	EARTHWORK TABULATIONS
10-14	UTILITY TABULATIONS
15-23	STANDARD DETAILS
24-29	PEDESTRIAN CURB RAMP DETAILS
30-31	GENERAL NOTES
32-36	EXISTING CONDITIONS PLAN
37-45	TYPICAL SECTIONS
46-53	ALIGNMENT PLANS
54-57	BUILDING DEMOLITION PLAN
58-62	CONTAMINATED SOILS REMOVAL PLAN
63-76	SITE PLAN
77-95	REMOVAL PLAN
96-109	GRADING PLAN
110-111	SUBSURFACE STORMWATER DETAIL
112	STORMWATER INFILTRATION BASIN DETAIL
113-114	IRON ENHANCED STORMWATER DETAIL
115-116	STORMWATER INFILTRATION BASIN DETAIL
117-120	SPECIAL DRAINAGE STRUCTURE DETAILS
121-130	DISTRICT STORMWATER SWALE DETAILS
131-134	RETAINING WALL PLAN & DETAILS
135-164	SANITARY SEWER AND WATERMAIN CONSTRUCTION
165-203	STORM SEWER CONSTRUCTION
204-235	STREET CONSTRUCTION
236-248	TRAIL CONSTRUCTION PLAN
249-260	INTERSECTION DETAILS
261-290	PEDESTRIAN RAMP PLAN
291-312	STREET LIGHTING PLAN
313-323	TRAFFIC CONTROL PLANS
324-347	SIGNING AND STRIPING PLANS
348	TEMPORARY SEDIMENT CONTROL PLAN & DETAILS
349-369	EROSION CONTROL PLAN & DETAILS
370-373	STORM WATER POLLUTION PREVENTION PLAN
374-435	CROSS SECTIONS
436-448	LANDSCAPE AMENITY PLAN (L300-L305, L310-L316)
449	TREE PROTECTION DETAILS (L501)
450-451	LANDSCAPE AMENITY DETAILS (L601 - L602)

THIS PLAN SET CONTAINS 451 SHEETS 6

DESIGN VEHICLE

LOCAL STREET	DESIGN VEHICLE	ACCOMODATION VEHICLE
WINTHROP ST. N.	P	S-BUS-40
IVY AVE. E.	P	S-BUS-40
CLEAR AVE. E.	P	S-BUS-40
COTTAGE AVE. E.	P	S-BUS-40
SHERWOOD AVE. E.	P	S-BUS-40
ARLINGTON AVE. E.	P	S-BUS-40
NEBRASKA AVE. E.	P	S-BUS-40
HOYT AVE. E.	P	S-BUS-40
IOWA AVE. E.	P	S-BUS-40

MIXED-USE

LIGHT INDUSTRIAL STREET	DESIGN VEHICLE	ACCOMMOATION VEHICLE
HOWARD ST. N.	SU-30	WB-40
IDAHO AVE. E.	SU-30	WB-40
MONTANA AVE. E.	WB-40	WB-62
ARLINGTON AVE. E.	WB-40	WB-62

DESIGN DESIGNATION (ARLINGTON, HOWARD, IDAHO, MONTANA)

R VALUE	=	30
PRESENT ADT (2025)	=	0
PROJECTED ADT (2045)	=	3,450
ESALS	=	460,000
DESIGN SPEED	=	25 MPH
BASED ON:	=	STOPPING SIGHT DISTANCE
HEIGHT OF EYE	=	3.5
HEIGHT OF OBJECT	=	2.0

DESIGN SPEED NOT ACHIEVED AT:

FUNCTIONAL CLASSIFICATION:	LOCAL
NO. OF TRAFFIC LANES:	2
NO. OF PARKING LANES:	1
SHOULDER WIDTH:	2
STRUCTURAL DESIGN STRENGTH:	10 TON

DESIGN DESIGNATION (LOCAL / RESIDENTIAL STREETS)

R VALUE	=	30
PRESENT ADT (2025)	=	0
PROJECTED ADT (2045)	=	1,500
ESALS	=	150,000
DESIGN SPEED	=	25 MPH
BASED ON:	=	STOPPING SIGHT DISTANCE
HEIGHT OF EYE	=	3.5
HEIGHT OF OBJECT	=	2.0

DESIGN SPEED NOT ACHIEVED AT:

FUNCTIONAL CLASSIFICATION:	LOCAL
NO. OF TRAFFIC LANES:	2
NO. OF PARKING LANES:	1
SHOULDER WIDTH:	2
STRUCTURAL DESIGN STRENGTH:	10 TON

DESIGN DESIGNATION TRAIL

DESIGN SPEED	20 MPH
BASED ON	STOPPING SIGHT DISTANCE HEIGHT OF EYE 4.5 HEIGHT OF OBJECT 0.0

wsb

SCALE: AS SHOWN DESIGN BY:

PLAN BY: PJM CHECK BY: PTH JMT

REVISIONS

NO.	DATE	DESCRIPTION	ADDENDUM NO. 1	ADDENDUM NO. 2	PLAN REVISIONS	100% PLAN COMMENTS
1	01/30/2024					
2	02/09/2024					
3	03/29/2024					
6	09/23/2024					

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Paul Hornby, P.E.
PAUL HORNBY, P.E.

DATE: 03/29/2024 LIC. NO: 23359

TITLE SHEET

INFRASTRUCTURE PLANS FOR:
THE HEIGHTS
SAINT PAUL, MINNESOTA

Saint Paul
Port Authority
400 Wabasha Street North
Suite 240
St Paul, Minnesota 55102
Phone 612-224-5686

WSB PROJECT NO.
013987-000

SCALE: AS SHOWN
DESIGN BY: PJM
PLAN BY: DEH
CHECK BY: PTH

REVISIONS					
NO.	DATE	DESCRIPTION	ADDENDUM NO. 1	PLAN REVISIONS	REVISION 4
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3	03/15/2024				
4	06/19/2024				
6	09/23/2024				
100% PLAN COMMENTS					

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DATE: 03/29/2024 LIC. NO. 23359

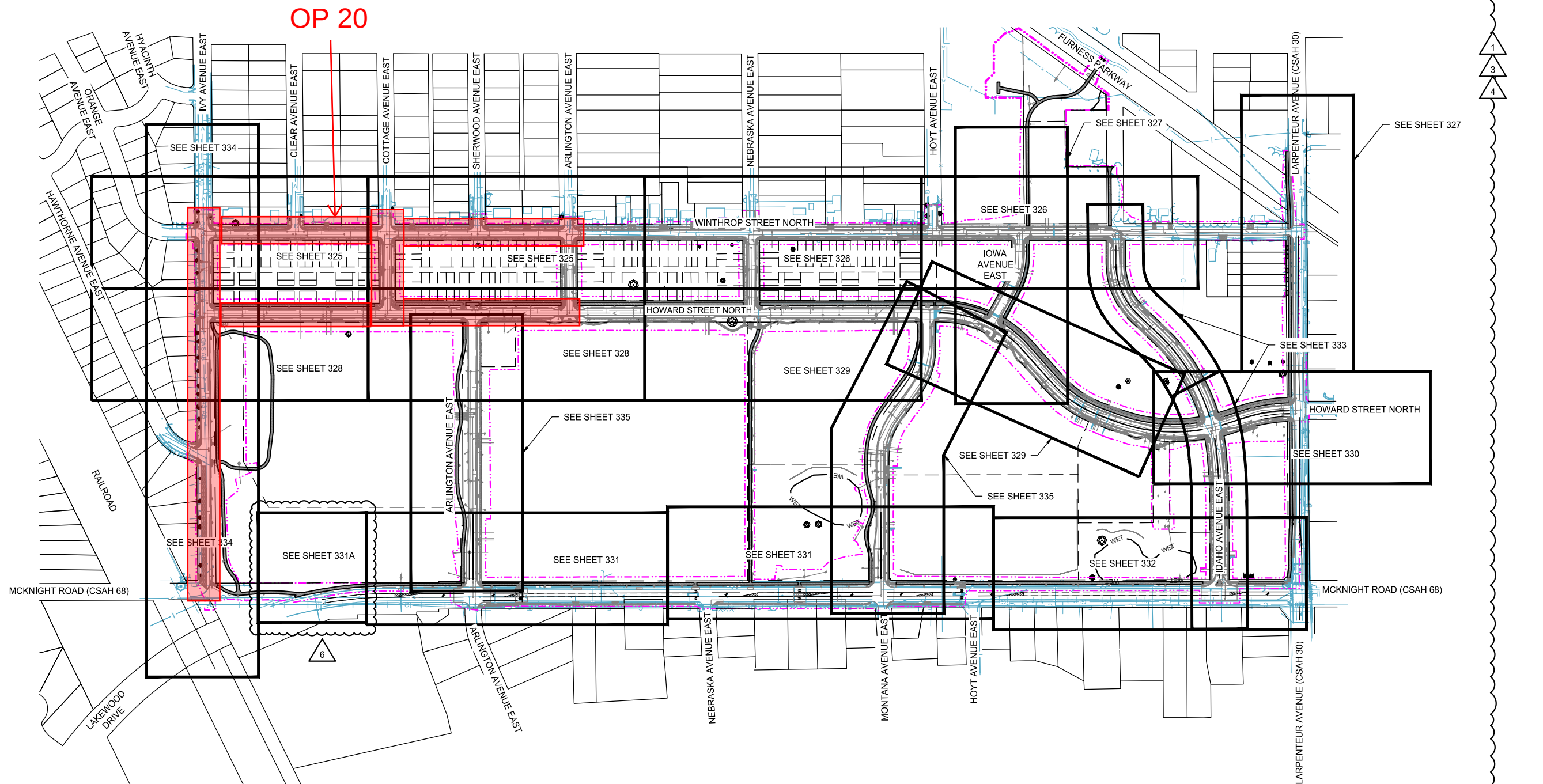
OVERALL SIGNING AND STRIPING PLAN

INFRASTRUCTURE PLANS FOR:
THE HEIGHTS
SAINT PAUL, MINNESOTA

Saint Paul
Port Authority
400 Wabasha Street North
Suite 240
St Paul, Minnesota 55102
Phone 612-224-5686

WSB PROJECT NO.
013987-000

324 OF 451



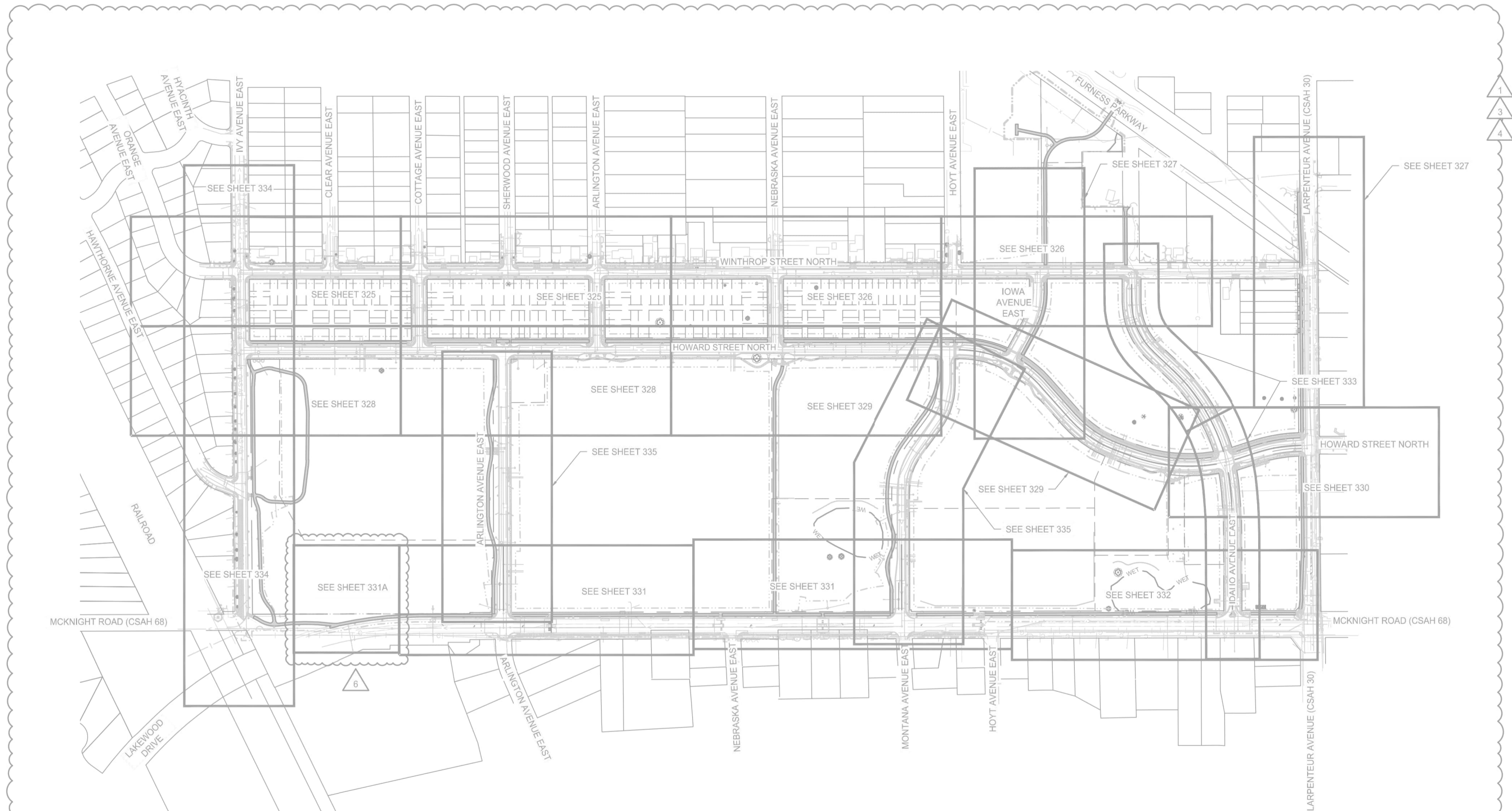
NOTES:

1. LARPEUR AVENUE (CSAH 30) AND MCKNIGHT ROAD (CSAH 68) USE RAMSEY COUNTY DETAILS.
2. REMAINING ROADWAYS USE CITY OF ST. PAUL DETAILS.
3. SEE REMOVALS PLAN FOR SIGNS TO BE SALVAGED AND REINSTALLED.
4. SEE SHEET 342 FOR STREET NAME SIGNS.
5. ALL CITY STREET NAME SIGNS ARE TWO SIDED (SINGLE PLATE).
6. BRACKETS FOR STREET SIGN PANELS SHALL BE (UNPAINTED) HIGH STRENGTH ALUMINUM WITH 5.5" SLOT WIDTH FOR EXTRUDED BLADES. BRACKET STRENGTH SHALL SUPPORT BLADES OF AT LEAST 48" IN LENGTH.
7. NIGHT PLOW ROUTE AND NO PARKING SIGNS THAT APPLY TO AN ENTIRE BLOCK CAN BE PLACED ON LIGHT POLES WHERE FEASIBLE.
8. MCKNIGHT RD. PEDESTRIAN MEDIAN (YELLOW) IN ALL CORNERS (DETAIL SHEET 23).

SIGN LEGEND

R1-1	R3-7M	R8-3	W 16-5 PL	OM3-C	STP-NPR
R1-3P	R3-9cP	W11-2	W 16-5 PR	AR-206	
R3-2	R3-9 dP	W14-1	W16-7P	X3-5	STP-NPR1S
R3-7	R4-7		OM1-2		
			OM4-2		

CMI NOTE: SEE ALSO
SHEET 324-R, REV. 7
(CIVIL METHODS, INC.)



- NOTES:
1. LARPENTEUR AVENUE (CSAH 30) AND MCKNIGHT ROAD (CSAH 68) USE RAMSEY COUNTY DETAILS.
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 8. SEE DETAIL SHEET 23 FOR PEDESTRIAN MEDIANS ALONG MCKNIGHT RD.

SIGN LEGEND

R1-1	R3-7M	R8-3	W 16-5 PL	OM3-C	STP-NPR
R1-3P	R3-9cP	W11-2	W 16-5 PR	AR-206	STP-NPR1S
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R3-7	R4-7		OM1-2		
			OM4-2		

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Ashleigh K Rosa
ASHLEIGH K ROSA
LICENSE #: 59517

10-08-2025
DATE



REVISION 7 DESCRIPTION:

* The base design (faded background) is a copy of the corresponding sheet from The Heights Site Redevelopment, Revision 6, dated 09/23/2024, produced by WSB. The certification below by Civil Methods, Inc. applies only to the Revision 7 modifications shown on this sheet, done in response to comments from the City of St. Paul. Detailed descriptions of Revision 7 changes are included in a separately provided comment log.

Tree locations depicted in the base design are from Revision 6 and have since been updated. Refer to Landscape Plans by LHB for tree locations.

COMMENT #15 ADDRESSED ON THIS SHEET (SEE COMMENT LOG): 6-118, 6-129

NO.	DESCRIPTION	DATE
7	Address Rev 6 Comments	7/31/2025

DESIGNED: _____
DRAWN: KEB
CHECKED: DMP

I HEREBY CERTIFY THAT THIS PLAN*, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Kent E. Brander
KENT E. BRANDER
DATE: 07-31-2025
LIC. #: 44578

CIVIL METHODS, INC.
P.O. Box 28038
St. Paul, MN 55128
PH: 763.210.5713 www.civilmethods.com

OWNER: Saint Paul
Port Authority
400 Wabasha St N
Ste 240
St. Paul, MN 55102
Phone 612-224-5686

PROJECT: INFRASTRUCTURE
PLANS FOR:
THE HEIGHTS
SAINT PAUL,
MINNESOTA

OVERALL
SIGNING AND
STRIPING PLAN

CURRENT REVISION SHEET NO.:
324-R

K:\013987-000\Cad\Plan\SUBMITTAL\013987-000-C-SIGN-PLAN.dwg 10/16/2024 5:03:30 PM

LEGEND

— SIGN LOCATION
— CROSSWALK - MULTI-COMP
— GR IN (WR)

NOTES

1. SIGN LOCATIONS TO BE FIELD VERIFIED.
2. CONTRACTOR TO FURNISH & INSTALL ALL SIGNS

STRIPING PAINT

1ST DIGIT WIDTH 4", 8", ETC.	2ND DIGIT PATTERN S - SOLID B - BROKEN T - DOTTED D - DOUBLE K - DOUBLE BROKEN H - DOUBLE DOTTED	3RD DIGIT COLOR W - WHITE Y - YELLOW B - BLACK
------------------------------------	---	--

XXXX
X

PERF-THERMO

XXX

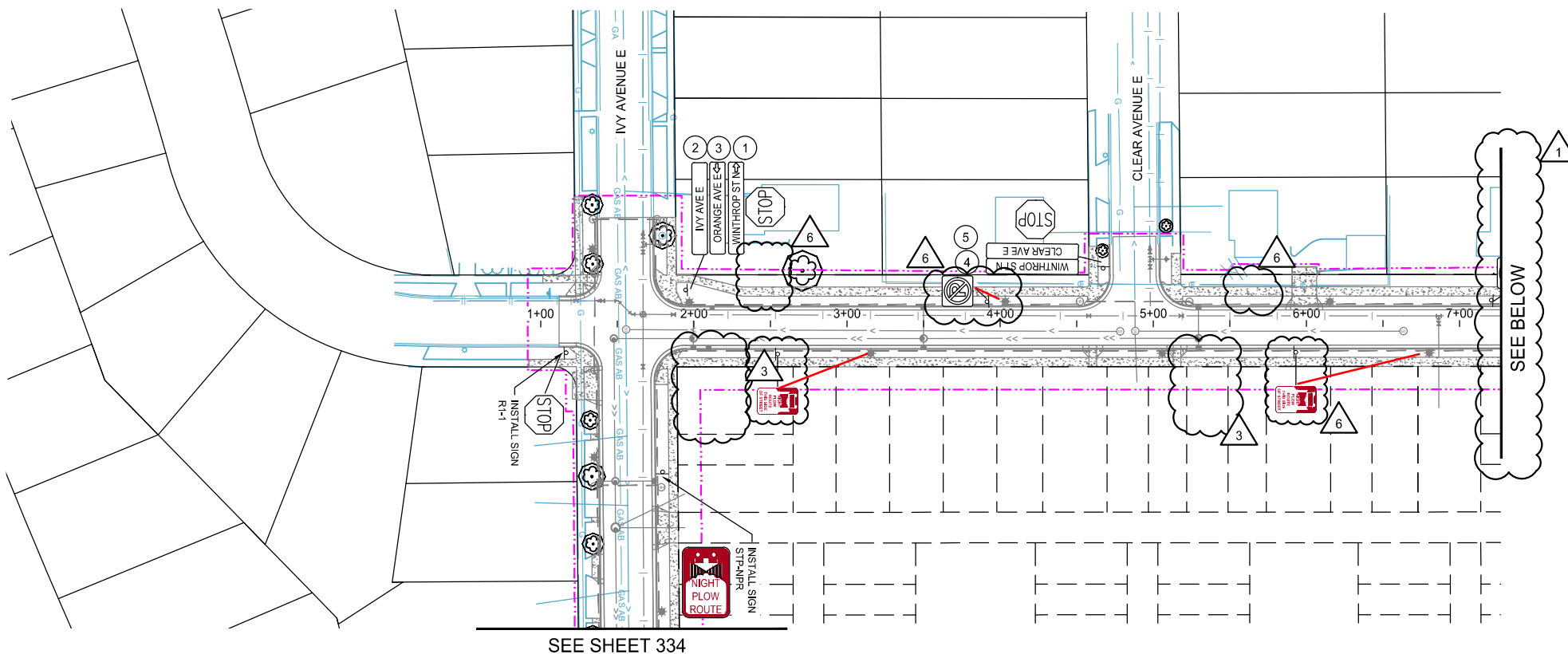
MULTI COMP
GROUND-IN, WET REFLECTIVE



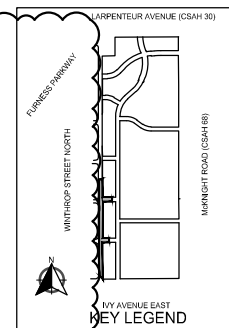
PAVEMENT MARKING
PREFORMED THERMO
PLASTIC (GROUND IN)

CONSTRUCTION LIMITS

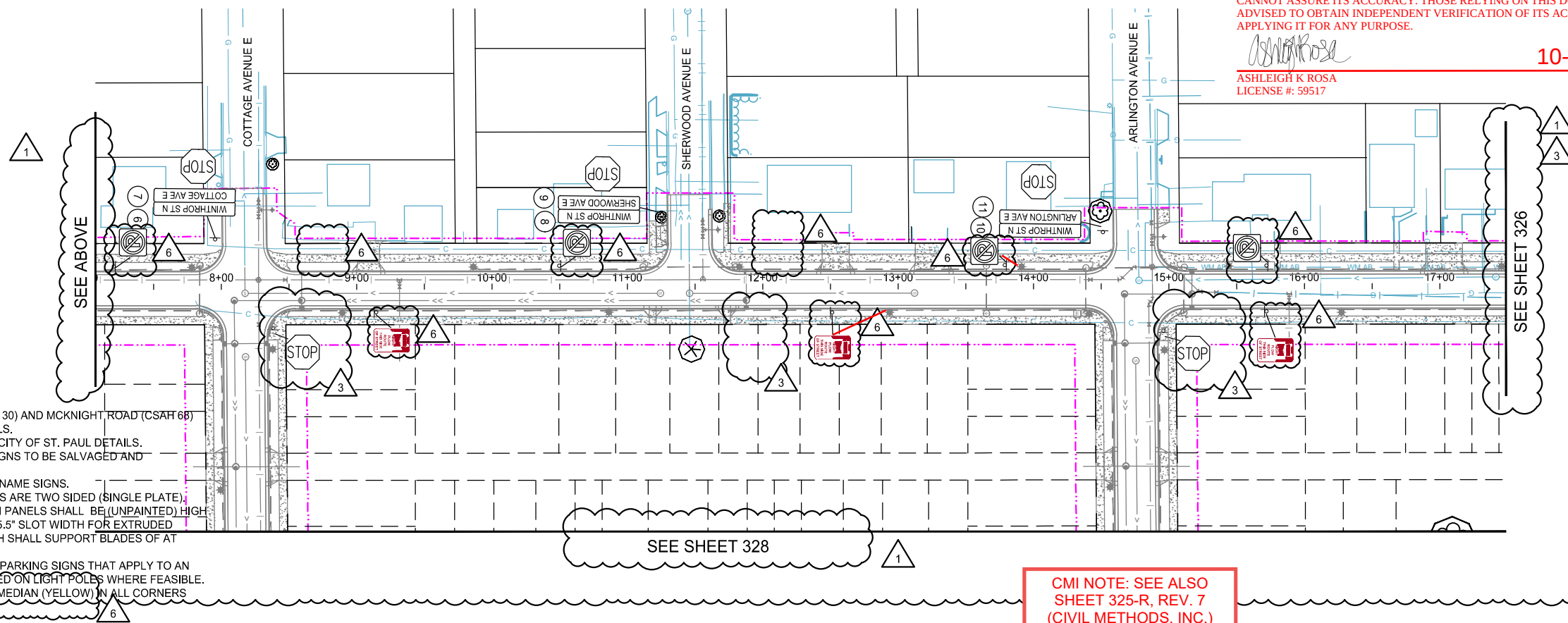
WINTHROP STREET N



0 50 100
SCALE IN FEET



WINTHROP STREET N



0 50 100
SCALE IN FEET

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Ashleigh K Rosa
ASHLEIGH K ROSA
LICENSE #: 59517

10-08-2025
DATE

NOTES:

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8. MCKNIGHT RD. PEDESTRIAN MEDIAN (YELLOW) IN ALL CORNERS (DETAIL SHEET 23).

CMI NOTE: SEE ALSO
SHEET 325-R, REV. 7
(CIVIL METHODS, INC.)

SCALE: AS SHOWN
PLAN BY: DEH
DESIGN BY: PJM
CHECK BY: PTH

REVISIONS

NO.	DATE	DESCRIPTION
1	01/30/2024	ADDENDUM NO. 1
3	03/29/2024	PLAN REVISIONS
4	06/19/2024	REVISION 4
6	09/23/2024	100% PLAN COMMENTS

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Paul Hornby, P.E.
PAUL HORNBY, P.E.

DATE: 03/29/2024 LIC. NO: 23359

SIGNING AND STRIPING PLAN

INFRASTRUCTURE PLANS FOR:
THE HEIGHTS
SAINT PAUL, MINNESOTA

Saint Paul
Port Authority
400 Wabasha Street North
Suite 240
St Paul, Minnesota 55102
Phone 612-224-5686

WSB PROJECT NO.
013987-000

LEGEND

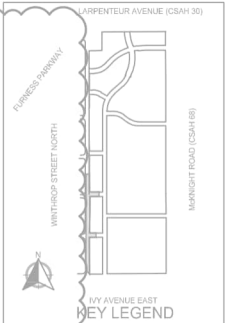
- SIGN LOCATION
CROSSWALK - MULTI-COMP
GR IN (WR)
- NOTES
- SIGN LOCATIONS TO BE FIELD VERIFIED.
 - CONTRACTOR TO FURNISH & INSTALL ALL SIGNS
- STRIPING PAINT
- | 1ST DIGIT
WIDTH
4", 8", ETC. | 2ND DIGIT
PATTERN
S - SOLID
B - BROKEN
T - DOTTED
D - DOUBLE
K - DOUBLE BROKEN
H - DOUBLE DOTTED | 3RD DIGIT
COLOR
W - WHITE
Y - YELLOW
B - BLACK |
|------------------------------------|---|--|
|------------------------------------|---|--|



CONSTRUCTION LIMITS

WINTHROP STREET N

SEE SHEET 334



REVISION 7 DESCRIPTION:

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COMMENT #15 ADDRESSED ON THIS SHEET (SEE COMMENT LOG): 6-118, 6-129, 6-120, 6-210, 6-211

NO.	DESCRIPTION	DATE
7	Address Rev 6 Comments	7/31/2025

DESIGNED:
DRAWN: KEB
CHECKED: DMP

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LIC. #: 44578

CIVIL METHODS, INC.
P.O. Box 28038
St. Paul, MN 55128
PH: 763.210.5713 www.civilmethods.com

WINTHROP STREET N

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ASHLEIGH K ROSA
LICENSE #: 59517
10-08-2025
DATE

SEE SHEET 328



- NOTES:
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 - SEE DETAIL SHEET 23 FOR PEDESTRIAN MEDIANS ALONG MCKNIGHT RD.

OWNER:
Saint Paul
Port Authority
400 Wabasha St N
Ste 240
St. Paul, MN 55102
Phone 612-224-5686

PROJECT:
INFRASTRUCTURE
PLANS FOR:
THE HEIGHTS
SAINT PAUL,
MINNESOTA

SIGNING AND
STRIPING PLAN

CURRENT REVISION SHEET NO.:
325-R

K:\013987-000\Plan\SUBMITTAL\013987-000-C-5\IGN-PLAN.dwg 10/16/2024 5:04:15 PM

LEGEND

SIGN LOCATION
CROSSWALK - MULTI-COMP
GR IN (WR)

NOTES

- SIGN LOCATIONS TO BE FIELD VERIFIED.
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STRIPING PAINT

1ST DIGIT WIDTH	2ND DIGIT PATTERN	3RD DIGIT COLOR
4", 8", ETC.	S - SOLID	W - WHITE
	B - BROKEN	Y - YELLOW
	T - DOTTED	B - BLACK
	D - DOUBLE	
	K - DOUBLE BROKEN	
	H - DOUBLE DOTTED	

XXXX
X

PERF-THERMO

XXX

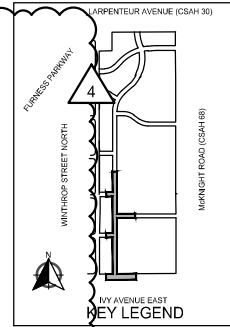
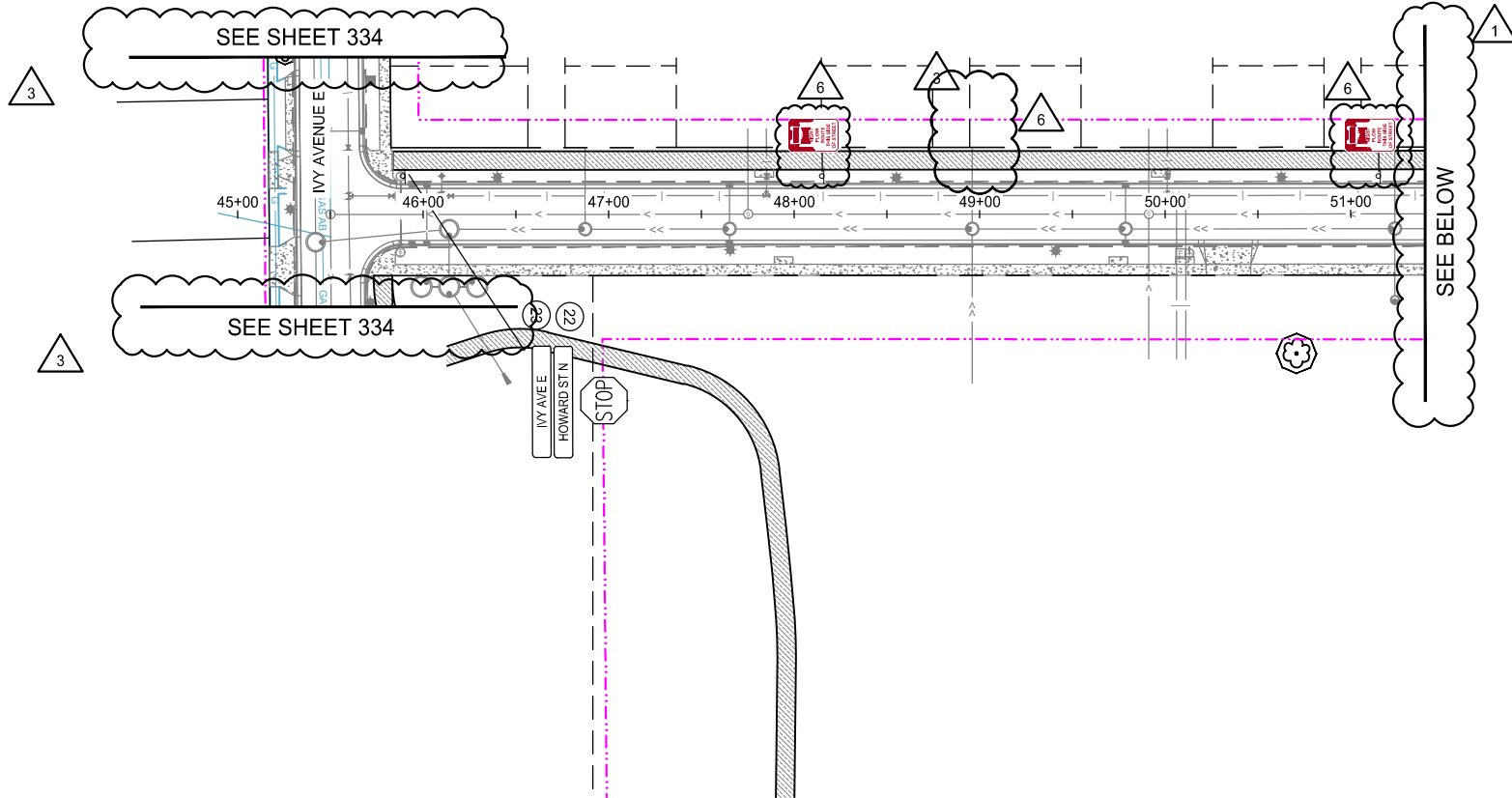
MULTI COMP
GROUND-IN, WET REFLECTIVE



PAVEMENT MARKING
PREFORMED THERMO
PLASTIC (GROUND IN)

CONSTRUCTION LIMITS

HOWARD STREET N



SCALE: AS SHOWN
DESIGN BY: PJM
PLAN BY: DEH
CHECK BY: PTH

REVISIONS

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DATE: 03/29/2024 LIC. NO. 23359

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Phone 612-224-5686

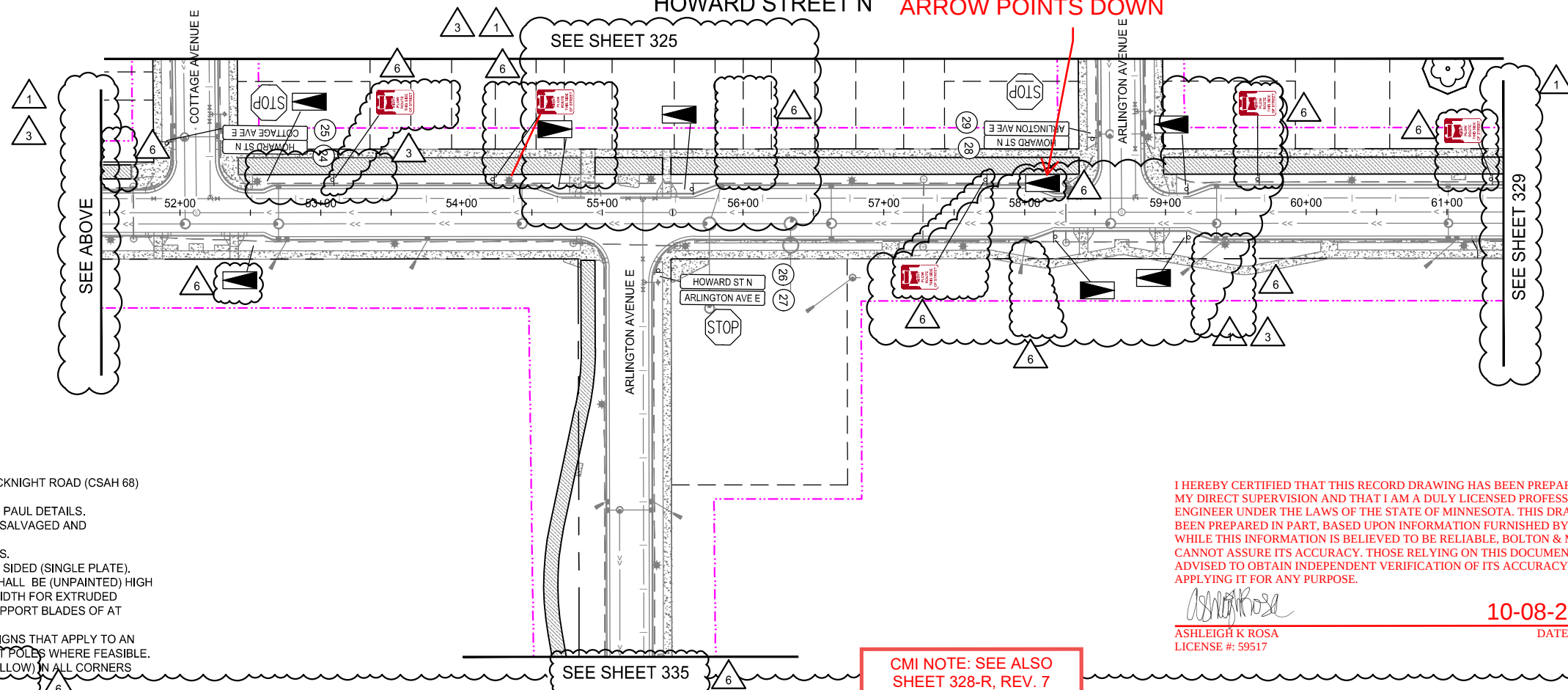
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- BRACKETS FOR STREET SIGN PANELS SHALL BE (UNPAINTED) HIGH STRENGTH ALUMINUM WITH 5.5" SLOT WIDTH FOR EXTRUDED BLADES. BRACKET STRENGTH SHALL SUPPORT BLADES OF AT LEAST 48" IN LENGTH.
- NIGHT PLOW ROUTE AND NO PARKING SIGNS THAT APPLY TO AN ENTIRE BLOCK CAN BE PLACED ON LIGHT POLES WHERE FEASIBLE.
- MCKNIGHT RD. PEDESTRIAN MEDIAN (YELLOW) IN ALL CORNERS (DETAIL SHEET 23).

HOWARD STREET N

ARROW POINTS DOWN



I HEREBY CERTIFIED THAT THIS RECORD DRAWING HAS BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. THIS DRAWING HAS BEEN PREPARED IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, BOLTON & MENK, INC. CANNOT ASSURE ITS ACCURACY. THOSE RELYING ON THIS DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

ASHLEIGH K ROSA
LICENSE #: 59517

10-08-2025

DATE

CMI NOTE: SEE ALSO
SHEET 328-R, REV. 7
(CIVIL METHODS, INC.)

LEGEND

SIGN LOCATION
CROSSWALK - MULTI-COMP
GR IN (WR)

NOTES

- SIGN LOCATIONS TO BE FIELD VERIFIED.
- CONTRACTOR TO FURNISH & INSTALL ALL SIGNS

STRIPING PAINT

1ST DIGIT WIDTH	2ND DIGIT PATTERN	3RD DIGIT COLOR
4", 8", ETC.	S - SOLID B - BROKEN T - DOTTED D - DOUBLE K - DOUBLE BROKEN H - DOUBLE DOTTED	W - WHITE Y - YELLOW B - BLACK

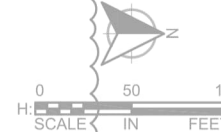
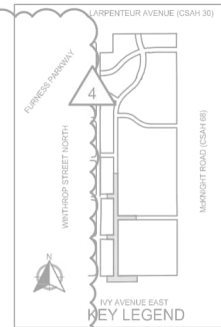
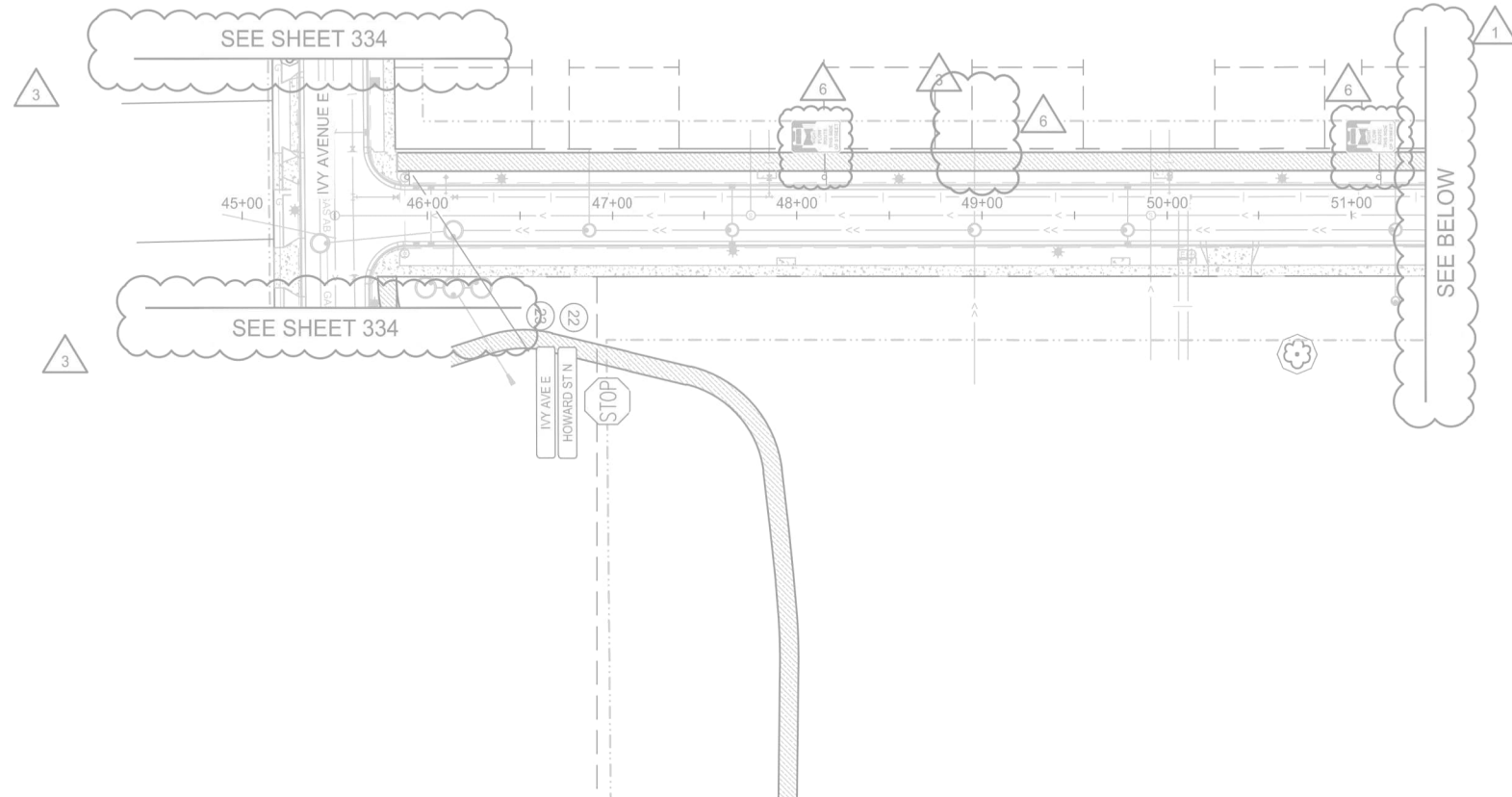


PERF-THERMO

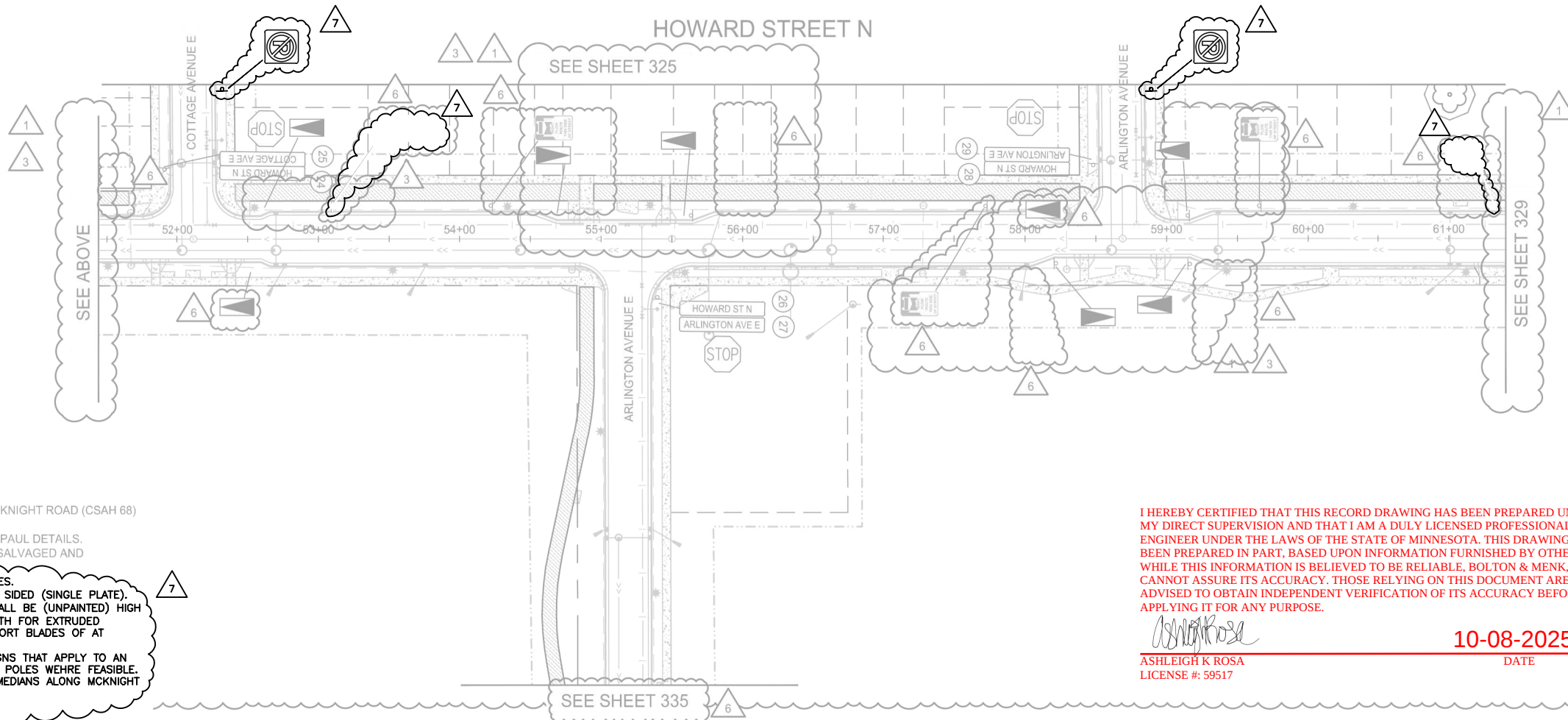
MULTI COMP
GROUND-IN, WET REFLECTIVEPAVEMENT MARKING
PREFORMED THERMO
PLASTIC (GROUND IN)

CONSTRUCTION LIMITS

HOWARD STREET N



HOWARD STREET N



NOTES:

- LARPENTEUR AVENUE (CSAH 30) AND MCKNIGHT ROAD (CSAH 68) USE RAMSEY COUNTY DETAILS.
- REMAINING ROADWAYS USE CITY OF ST. PAUL DETAILS.
- SEE REMOVALS PLAN FOR SIGNS TO BE SALVAGED AND REINSTALLED.
- SEE SHEET 342 FOR STREET NAME BLADES.
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- NIGHT PLOW ROUTE AND NO PARKING SIGNS THAT APPLY TO AN ENTIRE BLOCK CAN BE PLACED ON LIGHT POLES WEHRE FEASIBLE.
- SEE DETAIL SHEET 23 FOR PEDESTRIAN MEDIANS ALONG MCKNIGHT RD.

I HEREBY CERTIFIED THAT THIS RECORD DRAWING HAS BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. THIS DRAWING HAS BEEN PREPARED IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, BOLTON & MENK, INC. CANNOT ASSURE ITS ACCURACY. THOSE RELYING ON THIS DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

Ashleigh K Rosa
ASHLEIGH K ROSA
LICENSE #: 59517

10-08-2025
DATE



REVISION 7 DESCRIPTION:

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Tree locations depicted in the base design are from Revision 6 and have since been updated. Refer to Landscape Plans by LHB for tree locations.

COMMENT #'S ADDRESSED ON THIS SHEET
(SEE COMMENT LOG): 6-118, 6-129, 6-124, 6-125, 6-210, 6-211

NO.	DESCRIPTION	DATE
7	Address Rev 6 Comments	7/31/2025

DESIGNED:

DRAWN: KEB

CHECKED: DMP

I HEREBY CERTIFY THAT THIS PLAN*, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Kent E. Brander
KENT E. BRANDER

DATE: 07-31-2025

LIC. #: 44578

CIVIL METHODS, INC.

P.O. Box 28038
St. Paul, MN 55128
PH: 763.210.5713 www.civilmethods.com

OWNER:

Saint Paul
Port Authority
400 Wabasha St N
Ste 240
St. Paul, MN 55102
Phone 612-224-5686

PROJECT:

INFRASTRUCTURE
PLANS FOR:
THE HEIGHTS
SAINT PAUL,
MINNESOTA

SIGNING AND
STRIPING PLAN

CURRENT REVISION SHEET NO.:

328-R

SCALE: AS SHOWN
DESIGN BY: PJM
PLAN BY: DEH
CHECK BY: PTH

NO.	DATE	DESCRIPTION	ADDENDUM NO. 1	PLAN REVISIONS	REVISION 4	100% PLAN COMMENTS
1	01/30/2024					
3	03/29/2024					
4	06/19/2024					
6	09/23/2024					

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PAUL HORNBY, P.E.
DATE: 03/29/2024 LIC. NO. 23359

SIGNING AND STRIPING PLAN

INFRASTRUCTURE PLANS FOR:
THE HEIGHTS
SAINT PAUL, MINNESOTA

Saint Paul
Port Authority
400 Wabasha Street North
Suite 240
St Paul, Minnesota 55102
Phone 612-224-5686

WSB PROJECT NO.
013987-000

LEGEND

- SIGN LOCATION
- CROSSWALK - MULTI-COMP
GR IN (WR)

NOTES

- SIGN LOCATIONS TO BE FIELD VERIFIED.
- CONTRACTOR TO FURNISH & INSTALL ALL SIGNS

STRIPING PAINT

1ST DIGIT WIDTH 4", 8", ETC.	2ND DIGIT PATTERN	3RD DIGIT COLOR
S - SOLID	W - WHITE	
B - BROKEN	Y - YELLOW	
T - DOTTED	B - BLACK	
D - DOUBLE		
K - DOUBLE BROKEN		
H - DOUBLE DOTTED		

XXXX
X

PERF-THERMO

XXX

MULTI COMP
GROUND-IN, WET REFLECTIVE



PAVEMENT MARKING
PREFORMED THERMO
PLASTIC (GROUND IN)

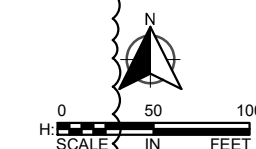
CONSTRUCTION LIMITS

IVY AVENUE EAST

SEE SHEET 325

SEE SHEET 328

SEE BELOW



I HEREBY CERTIFIED THAT THIS RECORD DRAWING HAS BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. THIS DRAWING HAS BEEN PREPARED IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, BOLTON & MENK, INC. CANNOT ASSURE ITS ACCURACY. THOSE RELYING ON THIS DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

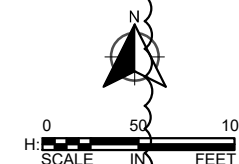
Ashleigh K. Rosa
ASHLEIGH K ROSA
LICENSE #: 59517

10-08-2025
DATE

IVY AVENUE EAST

SEE SHEET 332

SEE SHEET ABOVE



NOTES:

- LARPENTEUR AVENUE (CSAH 30) AND MCKNIGHT ROAD (CSAH 68) USE RAMSEY COUNTY DETAILS.
- REMAINING ROADWAYS USE CITY OF ST. PAUL DETAILS.
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- MCKNIGHT RD. PEDESTRIAN MEDIAN (YELLOW) IN ALL CORNERS (DETAIL SHEET 23).

NEW STREET BLADES
CREATED AND INSTALLED
IN LIEU OF SALVAGED

CMI NOTE: SEE ALSO
SHEET 334-R, REV. 7
(CIVIL METHODS, INC.)

LEGEND

- SIGN LOCATION
CROSSWALK - MULTI-COMP
GR IN (WR)

NOTES

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STRIPING PAINT

1ST DIGIT WIDTH	2ND DIGIT PATTERN	3RD DIGIT COLOR
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PERF-THERMO



MULTI COMP
GROUND-IN, WET REFLECTIVE



PAVEMENT MARKING
PREFORMED THERMO
PLASTIC (GROUND IN)

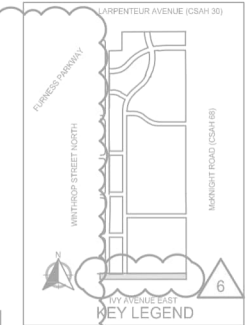
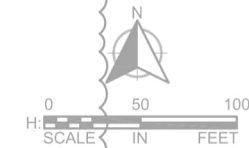
CONSTRUCTION LIMITS

IVY AVENUE EAST

SEE SHEET 325

SEE SHEET 328

SEE BELOW



REVISION 7 DESCRIPTION:

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COMMENT #'S ADDRESSED ON THIS SHEET (SEE COMMENT LOG): 6-118, 6-129, 6-131, 6-132

NO.	DESCRIPTION	DATE
7	Address Rev 6 Comments	7/31/2025

DESIGNED:

DRAWN: KEB

CHECKED: DMP

I HEREBY CERTIFY THAT THIS PLAN*, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Kent E. Brander
KENT E. BRANDER

DATE: 07-31-2025

LIC. #: 44578

CIVIL METHODS, INC.
P.O. Box 28038
St. Paul, MN 55128
PH: 763.210.5713 www.civilmethods.com

OWNER:
Saint Paul
Port Authority
400 Wabasha St N
Ste 240
St. Paul, MN 55102
Phone 612-224-5686

PROJECT:
INFRASTRUCTURE
PLANS FOR:
THE HEIGHTS
SAINT PAUL,
MINNESOTA

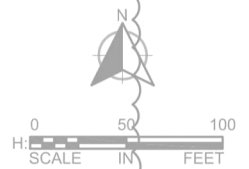
**SIGNING AND
STRIPING PLAN**

CURRENT REVISION SHEET NO.:
334-R

IVY AVENUE EAST

SEE SHEET 332

SEE SHEET ABOVE



I HEREBY CERTIFIED THAT THIS RECORD DRAWING HAS BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. THIS DRAWING HAS BEEN PREPARED IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, BOLTON & MENK, INC. CANNOT ASSURE ITS ACCURACY. THOSE RELYING ON THIS DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

Ashleigh K Rosa
ASHLEIGH K ROSA
LICENSE #: 59517
10-08-2025
DATE

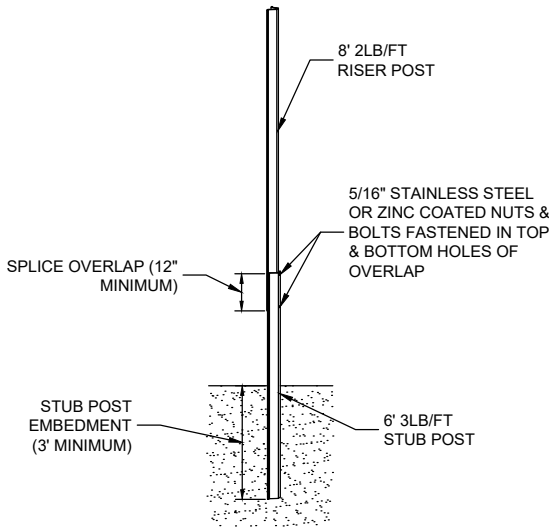
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- SEE DETAIL SHEET 23 FOR PEDESTRIAN MEDIANS ALONG MCKNIGHT RD.

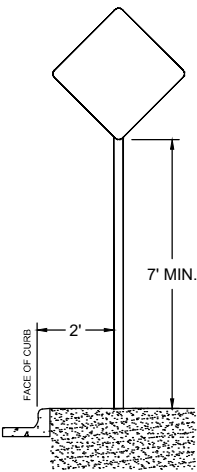
NEW STREET BLADES
CREATED AND INSTALLED
IN LIEU OF SALVAGED

K:\013987-000\CadPlan\SUBMITTAL\013987-000-C-SIGN\DET.Lwg 10/17/2024 7:50:07 AM

TYPICAL SIGN POST DETAIL

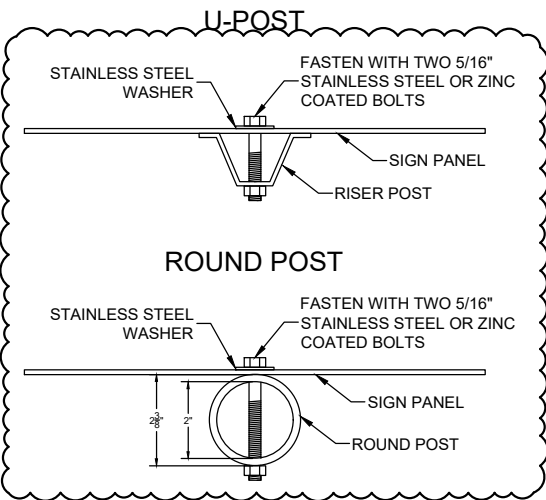


SIGN PLACEMENT GUIDELINES



- 1) MOUNTING HEIGHT OF OBJECT MARKERS AND DELINEATORS SHALL BE 4' UNLESS OTHERWISE NOTED.
- 2) MOUNTING HEIGHT OF X3-5 (SNOWPLOW MARKERS) MARKING CURB EXTENSIONS SHALL BE 3'.
- 3) MOUNTING HEIGHT OF OM3 MARKERS SHALL BE 1'.

SIGN PANEL MOUNTING DETAILS



6

4

SCALE: AS SHOWN
DESIGN BY: PJM
PLAN BY: PJM
CHECK BY: JMT

REVISIONS				
NO.	DATE	DESCRIPTION	REVISION 4	100% PLAN COMMENTS
4	06/19/2024			
6	09/23/2024			

SIGNING AND STRIPING DETAILS

INFRASTRUCTURE PLANS FOR:
THE HEIGHTS
SAINT PAUL, MINNESOTA

Saint Paul
Port Authority
400 Wabasha Street North
Suite 240
St Paul, Minnesota 55102
Phone 612-224-5686

WSB PROJECT NO.
013987-000

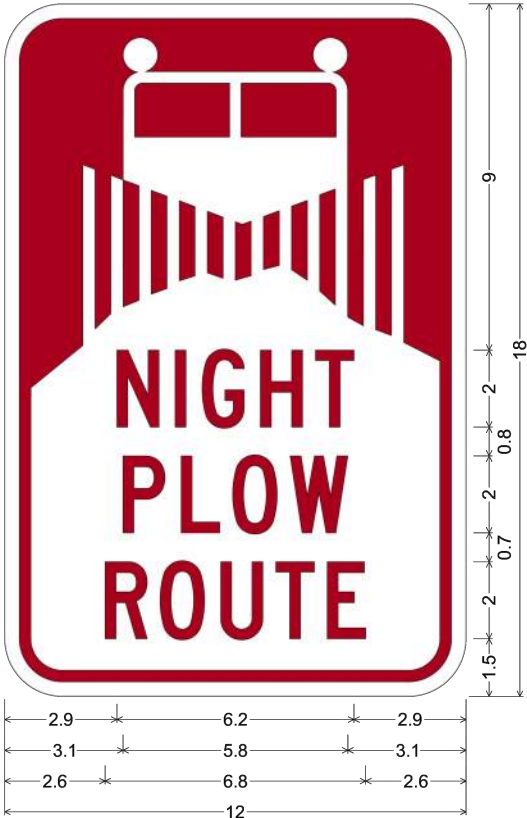
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Ashleigh K. Rosa

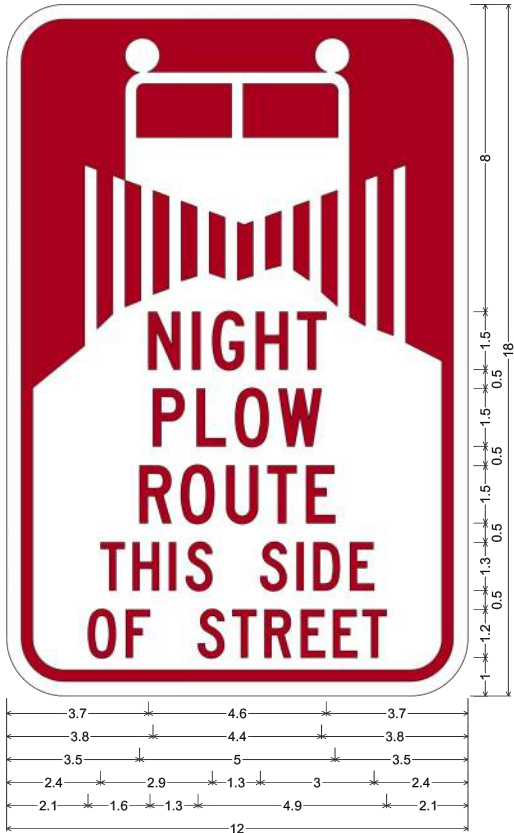
ASHLEIGH K ROSA
LICENSE #: 59517

10-08-2025

DATE



STP-NPR;
1.5" Radius, No border, Red on White;
"NIGHT", C; "PLOW", C; "ROUTE", C;

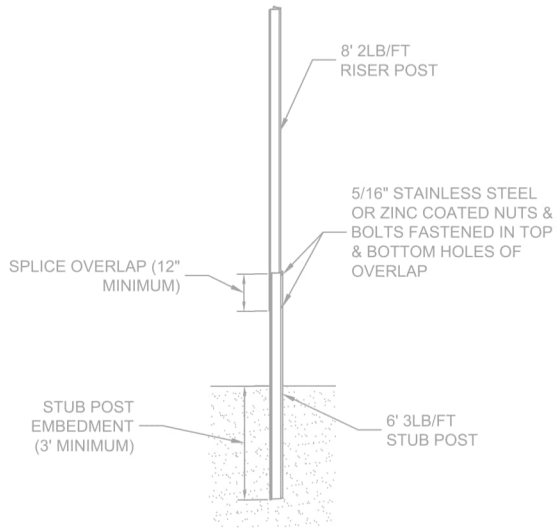


STP-NPR;
1.5" Radius, No border, Red on White;
"NIGHT", C; "PLOW", C; "ROUTE", C; "THIS SIDE", C;
"OF STREET", C;

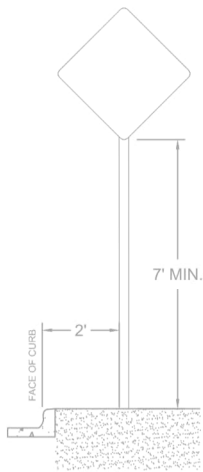
CITY OF ST. PAUL
SIGN PLACEMENT DETAILS

CMI NOTE: SEE ALSO
SHEET 338-R, REV. 7
(CIVIL METHODS, INC.)

TYPICAL SIGN POST DETAIL

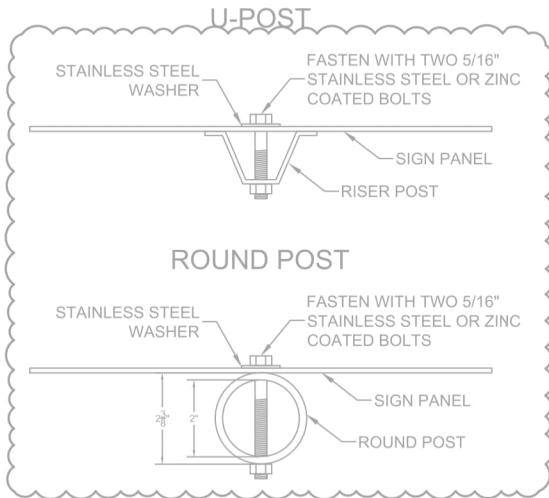


SIGN PLACEMENT
GUIDELINES



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SIGN PANEL MOUNTING
DETAILS



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Ashleigh K Rosa
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COMMENT #'S ADDRESSED ON THIS SHEET (SEE COMMENT LOG): 6-135

NO.	DESCRIPTION	DATE
7	Address Rev 6 Comments	7/31/2025

DESIGNED: _____
DRAWN: KEB
CHECKED: DMP

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Kent E. Brander
KENT E. BRANDER
DATE: 07-31-2025
LIC. #: 44578

CIVIL METHODS, INC.
P.O. Box 28038
St. Paul, MN 55128
PH: 763.210.5713 www.civilmethods.com

OWNER: Saint Paul
Port Authority
400 Wabasha St N
Ste 240
St. Paul, MN 55102
Phone 612-224-5686

PROJECT: INFRASTRUCTURE
PLANS FOR:
THE HEIGHTS
SAINT PAUL,
MINNESOTA

**SIGNING AND
STRIPING
DETAILS**

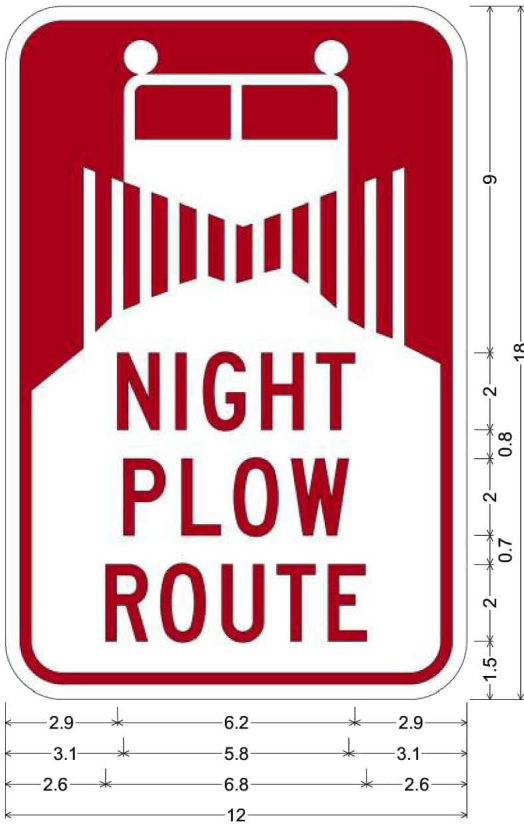
CURRENT REVISION SHEET NO.:
338-R



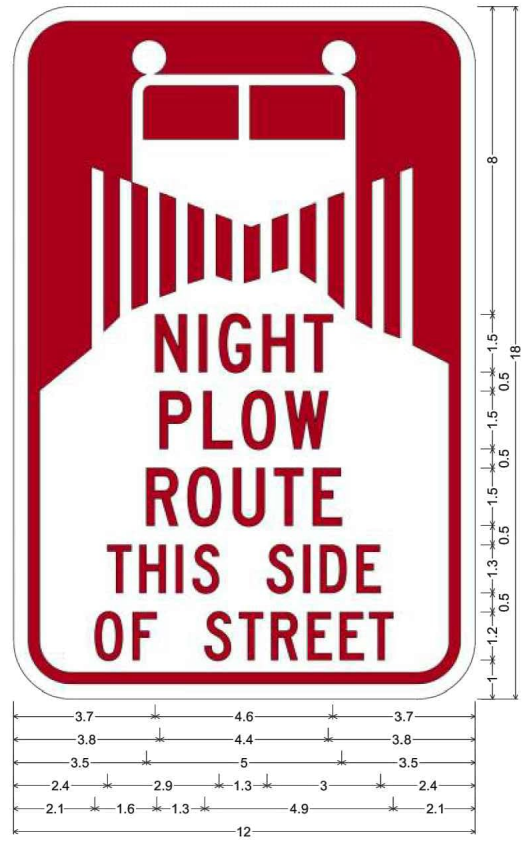
R7-2A;
1.5" Radius, 0.4" Border, 0.4" Indent, Red on White;
"BEGINS", B;



STP-NPE;
1.5" Radius, 0.4" Border, 0.4" Indent, Red on White;
"ENDS", B;



STP-NPR;
1.5" Radius, No border, Red on White;
"NIGHT", C; "PLOW", C; "ROUTE", C;



STP-NPR;
1.5" Radius, No border, Red on White;
"NIGHT", C; "PLOW", C; "ROUTE", C; "THIS SIDE", C;
"OF STREET", C;

K:\013987-000\CadPlan\SUBMITTAL\013987-000-C-SIGN-DET1.dwg 10/17/2024 7:50:22 AM

TYPE "C" SIGN TABULATION (FURNISH AND INSTALL)								
Mn/DOT SIGN NO.	QUANTITY	NOTES	POST LENGTH (FEET)	MOUNTING HEIGHT (FEET)	SIZE (INCHES)	SIZE EACH (SQ. FEET)	SIZE TOTAL (SQ. FEET)	LEGEND
R1-1	25	1,2,3	14	7	36"X36"	9	225	STOP SIGN
R1-3P	4	1,2,3	14	7	18"X6"	0.75	3	ALL WAY
R3-2	1	1,2,3	13	7	24"X24"	4	4	MOVEMENT PROHIBITION LEFT
R3-7	3	1,2,3	13.5	7	30"X30"	6.25	18.75	RIGHT LANE MUST TURN RIGHT
R3-7M	1	1,2,3	13.5	7	30"X30"	6.25	6.25	ALL TRAFFIC MUST TURN RIGHT
R3-9CP	4	1,2,3	13	7	30"X12"	2.5	10	BEGIN
R3-9DP	1	1,2,3	13	7	30"X12"	2.5	2.5	END
R4-7	1	1,2,3	13.5	7	24"X30"	5	5	KEEP RIGHT
R8-3	17	1,2,3	13	7	24"X24"	4	68	NO PARKING (SYMBOL)
W11-2	4	1,2,3	13.5	7	30"X30"	6.25	25	PEDESTRIAN
W16-SPL	1	1,2,3	12.5	7	24"X18"	3	3	SUPPLEMENTAL ARROW (LEFT)
W16-SPR	1	1,2,3	12.5	7	24"X18"	3	3	SUPPLEMENTAL ARROW (RIGHT)
W16-7PL	2	1,2,3	13.5	7	24"X12"	2	4	ARROW POINTING DOWN LEFT
W16-7PR	2	1,2,3	13.5	7	24"X12"	2	4	ARROW POINTING DOWN RIGHT
OM3-C	1	1,2,3	11	7	12"X36"	3	3	TYPE 3 OBJECT MARKER (CENTER)
STP-NPR1S	24	1,2,3	12.5	7	18"X12"	1.5	36	ST. PAUL - NIGHT PLOW ROUTE THIS SIDE OF STREET
X3-S	21	1,2	9	7	6"X12"	0.5	10.5	SNOW PLOW MARKER (RAISE BLADE)
TOTAL	113						431	

TYPE "C" SIGN NOTES:

1. POST LENGTHS ARE APPROXIMATE AND INCLUDE POST, STABILIZER, AND ANCHOR , BUT DO NOT INCLUDE ADDITIONAL LENGTH REQUIRED FOR SPLICE.
2. SEE STANDARD SIGNS MANUAL FOR PUNCHING CODE AND DETAILED DRAWINGS OF TYPE "C" SIGNS.
3. SIGN TO BE MOUNTED TO SAME POST AS TYPE "C" SIGN.
4. SIGN TO BE MOUNTED TO SAME POST AS INSTALL SIGN (SALVAGED).

TYPE "SPECIAL" SIGN TABULATION (FURNISH AND INSTALL)					
Mn/DOT SIGN NO.	QUANTITY	NOTES	POST LENGTH (FEET)	MOUNTING HEIGHT (FEET)	LEGEND
D3-1	3	1,2,3	14	7	IVY AVE E
D3-1	1	1,2,3	14	7	ORANGE AVE E
D3-1	9	1,2,3	14	7	WINTHROP ST N
D3-1	1	1,2,3	14	7	CLEAR AVE E
D3-1	2	1,2,3	14	7	COTTAGE AVE E
D3-1	1	1,2,3	14	7	SHERWOOD AVE E
D3-1	4	1,2,3	14	7	ARLINGTON AVE E
D3-1	2	1,2,3	14	7	NEBRASKA AVE E
D3-1	1	1,2,3	14	7	HOYT AVE E
D3-1	2	1,2,3	14	7	IOWA AVE E
D3-1	3	1,2,3	14	7	IDAHO AVE E
D3-1	9	1,2,3	14	7	HOWARD ST N
D3-1	2	1,2,3	14	7	MONTANA AVE E
D3-1	1	1,2,3	14	7	LARPENTEUR AVE E
D3-1	4	1,2,3	14	7	MCKNIGHT RD N
TOTAL	45				

TYPE "SPECIAL" SIGN NOTES:

1. POST LENGTHS ARE APPROXIMATE AND INCLUDE POST, STABILIZER, AND ANCHOR , BUT DO NOT INCLUDE ADDITIONAL LENGTH REQUIRED FOR SPLICE.
2. SEE STANDARD SIGNS MANUAL FOR PUNCHING CODE AND DETAILED DRAWINGS OF TYPE "C" SIGNS.
3. SIGN TO BE MOUNTED TO SAME POST AS TYPE "C" SIGN.
4. SIGN TO BE MOUNTED TO SAME POST AS INSTALL SIGN (SALVAGED).

INSTALL SIGN (SALVAGED)					
Mn/DOT SIGN NO.	QUANTITY	NOTES	POST LENGTH (FEET)	MOUNTING HEIGHT (FEET)	LEGEND
R1-1	6	1,2,3,4	14	7	STOP SIGN
R2-1 (45)	3	1,2,3,4	13.5	7	SPEED LIMIT (45 MPH)
R3-9b	6	1,2,3	14	7	TWO-WAY LEFT TURN ONLY
R3-9dP	1	1,2,3	12.5	7	END
R3-17	2	1,2,3,4	12.5	7	BIKE LANE
R8-3	20	1,2,3,4	13	7	NO PARKING (SYMBOL)
W1-8R	4	1,2,3,4	13	7	CHEVRON ALIGNMENT (RIGHT)
W1-8L	4	1,2,3,4	13	7	CHEVRON ALIGNMENT (LEFT)
W11-2	13	1,2,3,4	13.5	7	PEDESTRIAN
W14-1	1	1,2,3,4	13.5	7	DEAD END
W16-SPL	1	1,2,3,4	12.5	7	SUPPLEMENTAL ARROW (LEFT)
W16-SPR	1	1,2,3,4	12.5	7	SUPPLEMENTAL ARROW (RIGHT)
W16-7PL	6	1,2,3,4	13.5	7	ARROW POINTING DOWN LEFT
W16-7PR	6	1,2,3,4	13.5	7	ARROW POINTING DOWN RIGHT
W16-9P	1	1,2,3,4	13.5	7	AHEAD
OM3-R	3	1,2,3,4	11	7	TYPE 3 OBJECT MARKER (RIGHT)
M1-6M (RC 68)	1	1,2,3,4	13	7	COUNTY ROUTE MARKER (RAMSEY COUNTY 68)
NO WAKE ZONE	4	1,2,3,4	13	7	NO WAKE ZONE
D3-1	4	1,2,3,4	12	7	STREET NAME SIGN
STP-NPR	3	1,2,3,4	12.5	7	ST. PAUL - NIGHT PLOW ROUTE
SAINT PAUL THE CAPITAL CITY	1	1,2,3,4	14	7	SAINT PAUL THE CAPITAL CITY
HAYDEN HEIGHTS	1	1,2,3,4	14	7	HAYDEN HEIGHTS
NO PARKING 30 FEET	1	1,2,3,4	13	7	NO PARKING 30 FEET
R8-3 MODIFIED	1	1,2,3,4	12.5	7	NO PARKING CORNER TO HERE
UNKNOWN	1	1,2,3,4	12.5	8	UNKNOWN SIGN
TOTAL	94				

SALVAGED AND REINSTALL SIGN NOTES:

1. POST LENGTHS ARE APPROXIMATE AND INCLUDE EMBEDMENT.
2. SEE SIGN DETAILS IN PLAN SET.
3. SIGN TO BE MOUNTED TO SAME POST AS TYPE "C" SIGN.
4. SIGN TO BE MOUNTED TO SAME POST AS INSTALL SIGN (SALVAGED).

6

4 3

I HEREBY CERTIFIED THAT THIS RECORD DRAWING HAS BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. THIS DRAWING HAS BEEN PREPARED IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, BOLTON & MENK, INC. CANNOT ASSURE ITS ACCURACY. THOSE RELYING ON THIS DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.



ASHLEIGH K ROSA
LICENSE #: 59517

10-08-2025

DATE

CMI NOTE: SEE ALSO
SHEET 341-R, REV. 7
(CIVIL METHODS, INC.)

SIGNING TABULATIONS

SCALE: AS SHOWN
DESIGN BY: PJM
PLAN BY: PJM
CHECK BY: JMT

REVISIONS

NO.	DATE	DESCRIPTION
3	03/29/2024	PLAN REVISIONS
4	06/19/2024	REVISION 4
6	09/23/2024	100% PLAN COMMENTS

SIGNING AND
STRIPING
DETAILS

INFRASTRUCTURE PLANS FOR:
THE HEIGHTS
SAINT PAUL, MINNESOTA

Saint Paul
Port Authority
400 Wabasha Street North
Suite 240
St Paul, Minnesota 55102
Phone 612-224-5686

WSB PROJECT NO.
013987-000

I HEREBY CERTIFIED THAT THIS RECORD DRAWING HAS BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. THIS DRAWING HAS BEEN PREPARED IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, BOLTON & MENK, INC. CANNOT ASSURE ITS ACCURACY. THOSE RELYING ON THIS DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.



10-08-2025

ASHLEIGH K ROSA

LICENSE #: 59517

DATE

TYPE "C" SIGN TABULATION (FURNISH AND INSTALL)								
Mn/DOT SIGN NO.	QUANTITY	NOTES	POST LENGTH (FEET)	MOUNTING HEIGHT (FEET)	SIZE (INCHES)	SIZE EACH (SQ. FEET)	SIZE TOTAL (SQ. FEET)	LEGEND
R1-1	25	1,2,3	14	7	36"X36"	9	225	STOP SIGN
R1-3P	4	1,2,3	14	7	18"X6"	0.75	3	ALL WAY
R3-2	1	1,2,3	13	7	24"X24"	4	4	MOVEMENT PROHIBITION LEFT
R3-7	3	1,2,3	13.5	7	30"X30"	6.25	18.75	RIGHT LANE MUST TURN RIGHT
R3-7M	1	1,2,3	13.5	7	30"X30"	6.25	6.25	ALL TRAFFIC MUST TURN RIGHT
R3-9CP	4	1,2,3	13	7	30"X12"	2.5	10	BEGIN
R3-9DP	1	1,2,3	13	7	30"X12"	2.5	2.5	END
R4-7	1	1,2,3	13.5	7	24"X30"	5	5	KEEP RIGHT
R8-3	17	1,2,3	13	7	24"X24"	4	68	NO PARKING (SYMBOL)
W11-2	4	1,2,3	13.5	7	30"X30"	6.25	25	PEDESTRIAN
W1-6	1	1,2,3	12.5	7	24"X18"	3	3	SUPPLEMENTAL ARROW (LEFT)
W1-6	1	1,2,3	12.5	7	24"X18"	3	3	SUPPLEMENTAL ARROW (RIGHT)
W16-7PL	2	1,2,3	13.5	7	24"X12"	2	4	ARROW POINTING DOWN LEFT
W16-7PR	2	1,2,3	13.5	7	24"X12"	2	4	ARROW POINTING DOWN RIGHT
OM3-C	1	1,2,3	11	7	12"X36"	3	3	TYPE 3 OBJECT MARKER (CENTER)
STP-NPR1S	24	1,2,3	12.5	7	18"X12"	1.5	36	ST. PAUL - NIGHT PLOW ROUTE THIS SIDE OF STREET
X3-S	21	1,2	9	7	6"X12"	0.5	10.5	SNOW PLOW MARKER (RAISE BLADE)
TOTAL	113						431	

TYPE "C" SIGN NOTES:

1. POST LENGTHS ARE APPROXIMATE AND INCLUDE POST, STABILIZER, AND ANCHOR, , BUT DO NOT INCLUDE ADDITIONAL LENGTH REQUIRED FOR SPLICE.
2. SEE STANDARD SIGNS MANUAL FOR PUNCHING CODE AND DETAILED DRAWINGS OF TYPE "C" SIGNS.
3. SIGN TO BE MOUNTED TO SAME POST AS TYPE "C" SIGN.
4. SIGN TO BE MOUNTED TO SAME POST AS INSTALL SIGN (SALVAGED).

TYPE "SPECIAL" SIGN TABULATION (FURNISH AND INSTALL)					
Mn/DOT SIGN NO.	QUANTITY	NOTES	POST LENGTH (FEET)	MOUNTING HEIGHT (FEET)	LEGEND
D3-1	3	1,2,3	14	7	IVY AVE E
D3-1	1	1,2,3	14	7	ORANGE AVE E
D3-1	9	1,2,3	14	7	WINTHROP ST N
D3-1	1	1,2,3	14	7	CLEAR AVE E
D3-1	2	1,2,3	14	7	COTTAGE AVE E
D3-1	1	1,2,3	14	7	SHERWOOD AVE E
D3-1	4	1,2,3	14	7	ARLINGTON AVE E
D3-1	2	1,2,3	14	7	NEBRASKA AVE E
D3-1	1	1,2,3	14	7	HOYT AVE E
D3-1	2	1,2,3	14	7	IOWA AVE E
D3-1	3	1,2,3	14	7	IDAHO AVE E
D3-1	9	1,2,3	14	7	HOWARD ST N
D3-1	2	1,2,3	14	7	MONTANA AVE E
D3-1	1	1,2,3	14	7	LARPEUTEUR AVE E
D3-1	4	1,2,3	14	7	MCKNIGHT RD N
TOTAL	45				

TYPE "SPECIAL" SIGN NOTES:

1. POST LENGTHS ARE APPROXIMATE AND INCLUDE POST, STABILIZER, AND ANCHOR, , BUT DO NOT INCLUDE ADDITIONAL LENGTH REQUIRED FOR SPLICE.
2. SEE STANDARD SIGNS MANUAL FOR PUNCHING CODE AND DETAILED DRAWINGS OF TYPE "C" SIGNS.
3. SIGN TO BE MOUNTED TO SAME POST AS TYPE "C" SIGN.
4. SIGN TO BE MOUNTED TO SAME POST AS INSTALL SIGN (SALVAGED).

INSTALL SIGN (SALVAGED)					
Mn/DOT SIGN NO.	QUANTITY	NOTES	POST LENGTH (FEET)	MOUNTING HEIGHT (FEET)	LEGEND
R1-1	6	1,2,3,4	14	7	STOP SIGN
R2-1 (4S)	3	1,2,3,4	13.5	7	SPEED LIMIT (45 MPH)
R3-9b	6	1,2,3	14	7	TWO-WAY LEFT TURN ONLY
R3-9dP	1	1,2,3	12.5	7	END
R3-17	2	1,2,3,4	12.5	7	BIKE LANE
R8-3	20	1,2,3,4	13	7	NO PARKING (SYMBOL)
W1-8R	4	1,2,3,4	13	7	CHEVRON ALIGNMENT (RIGHT)
W1-8L	4	1,2,3,4	13	7	CHEVRON ALIGNMENT (LEFT)
W11-2	13	1,2,3,4	13.5	7	PEDESTRIAN
W14-1	1	1,2,3,4	13.5	7	DEAD END
W1-6	1	1,2,3,4	12.5	7	SUPPLEMENTAL ARROW (LEFT)
W1-6	1	1,2,3,4	12.5	7	SUPPLEMENTAL ARROW (RIGHT)
W16-7PL	6	1,2,3,4	13.5	7	ARROW POINTING DOWN LEFT
W16-7PR	6	1,2,3,4	13.5	7	ARROW POINTING DOWN RIGHT
W16-9P	1	1,2,3,4	13.5	7	AHEAD
OM3-R	3	1,2,3,4	11	7	TYPE 3 OBJECT MARKER (RIGHT)
M1-6M (RC 68)	1	1,2,3,4	13	7	COUNTY ROUTE MARKER (RAMSEY COUNTY 68)
NO WAKE ZONE	4	1,2,3,4	13	7	NO WAKE ZONE
D3-1	4	1,2,3,4	12	7	STREET NAME SIGN
STP-NPR	3	1,2,3,4	12.5	7	ST. PAUL - NIGHT PLOW ROUTE
SAINT PAUL THE CAPITAL CITY	1	1,2,3,4	14	7	SAINT PAUL THE CAPITAL CITY
HAYDEN HEIGHTS	1	1,2,3,4	14	7	HAYDEN HEIGHTS
NO PARKING 30 FEET	1	1,2,3,4	13	7	NO PARKING 30 FEET
R8-3 MODIFIED	1	1,2,3,4	12.5	7	NO PARKING CORNER TO HERE
UNKNOWN	1	1,2,3,4	12.5	8	UNKNOWN SIGN
TOTAL	94				

SALVAGED AND REINSTALL SIGN NOTES:

1. POST LENGTHS ARE APPROXIMATE AND INCLUDE EMBEDMENT.
2. SEE SIGN DETAILS IN PLAN SET.
3. SIGN TO BE MOUNTED TO SAME POST AS TYPE "C" SIGN.
4. SIGN TO BE MOUNTED TO SAME POST AS INSTALL SIGN (SALVAGED).

REVISION 7 DESCRIPTION:

* The base design (faded background) is a copy of the corresponding sheet from The Heights Site Redevelopment, Revision 6, dated 09/23/2024, produced by WSB. The certification below by Civil Methods, Inc. applies only to the Revision 7 modifications shown on this sheet, done in response to comments from the City of St. Paul. Detailed descriptions of Revision 7 changes are included in a separately provided comment log.

Tree locations depicted in the base design are from Revision 6 and have since been updated. Refer to Landscape Plans by LHB for tree locations.

COMMENT #15 ADDRESSED ON THIS SHEET (SEE COMMENT LOG): 6-341

NO.	DESCRIPTION	DATE
7	Address Rev 6 Comments	7/31/2025

DESIGNED:

DRAWN: KEB

CHECKED: DMP

I HEREBY CERTIFY THAT THIS PLAN*, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.



KENT E. BRANDER

DATE: 07-31-2025

LIC. #: 44578

CIVIL METHODS, INC.

P.O. Box 28038
St. Paul, MN 55128
PH: 763.210.5713 www.civilmethods.com

OWNER:

Saint Paul
Port Authority
400 Wabasha St N
Ste 240
St. Paul, MN 55102
Phone 612-224-5686

PROJECT:

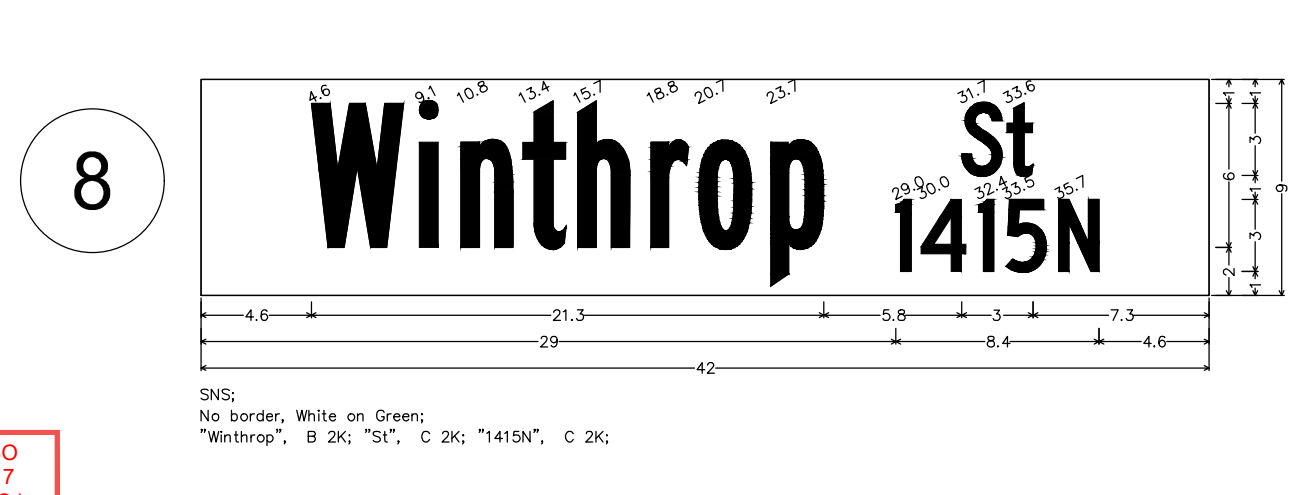
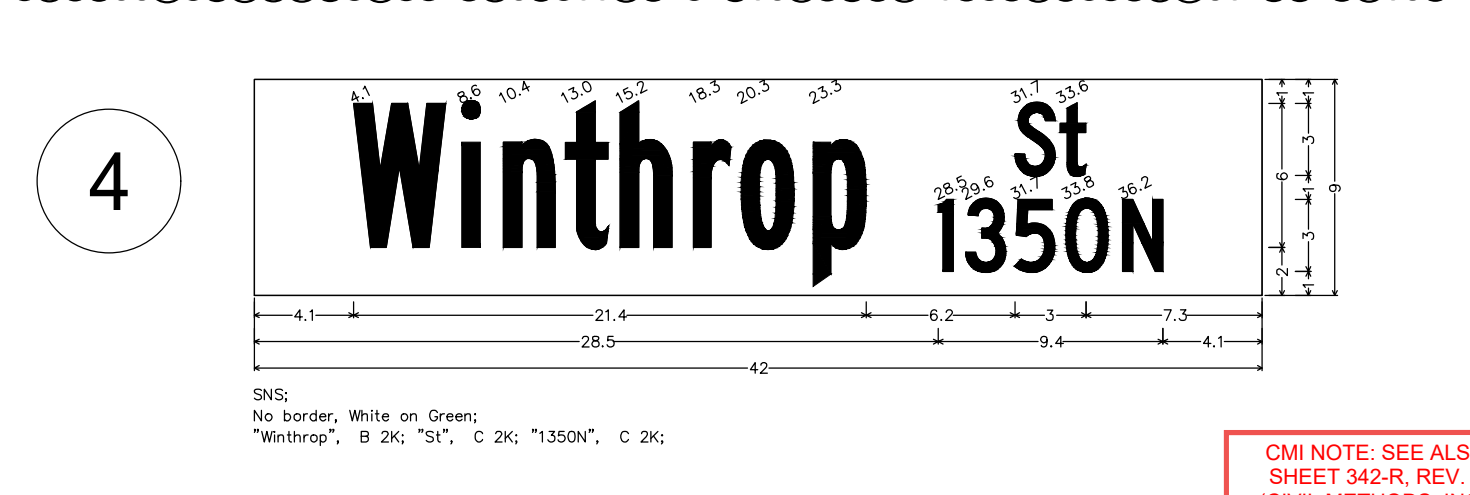
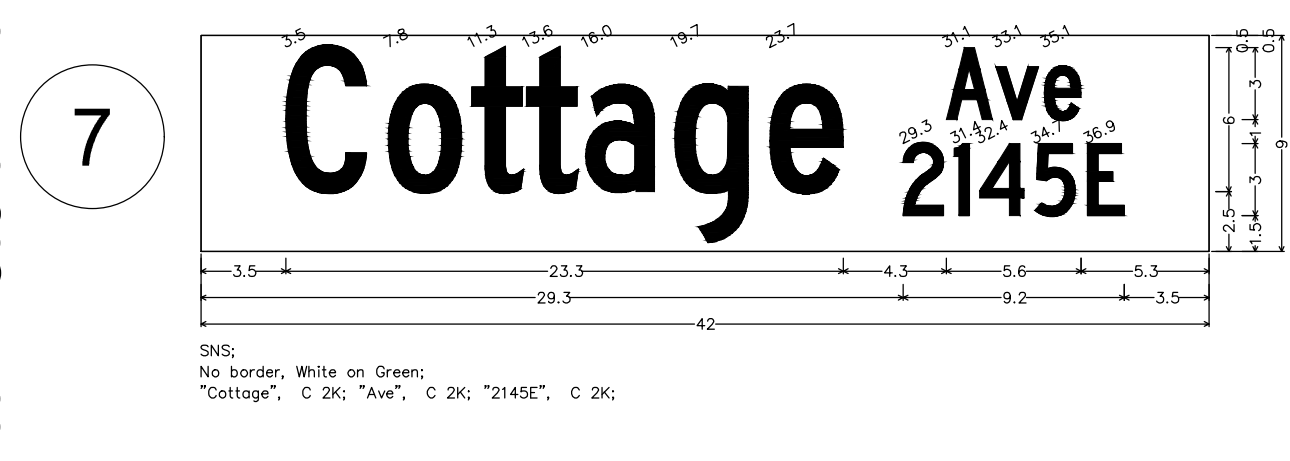
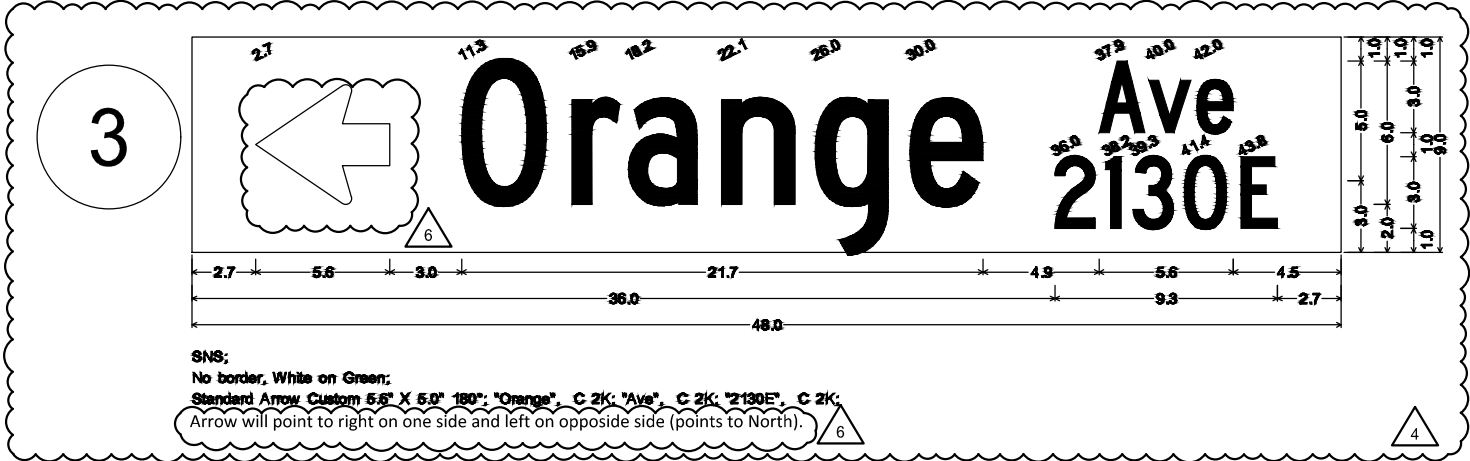
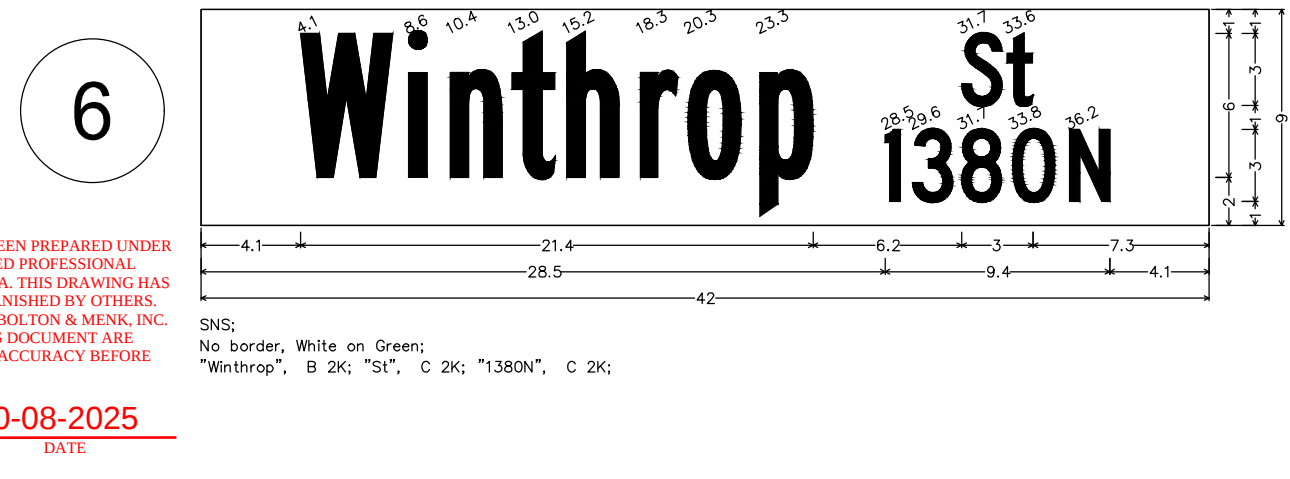
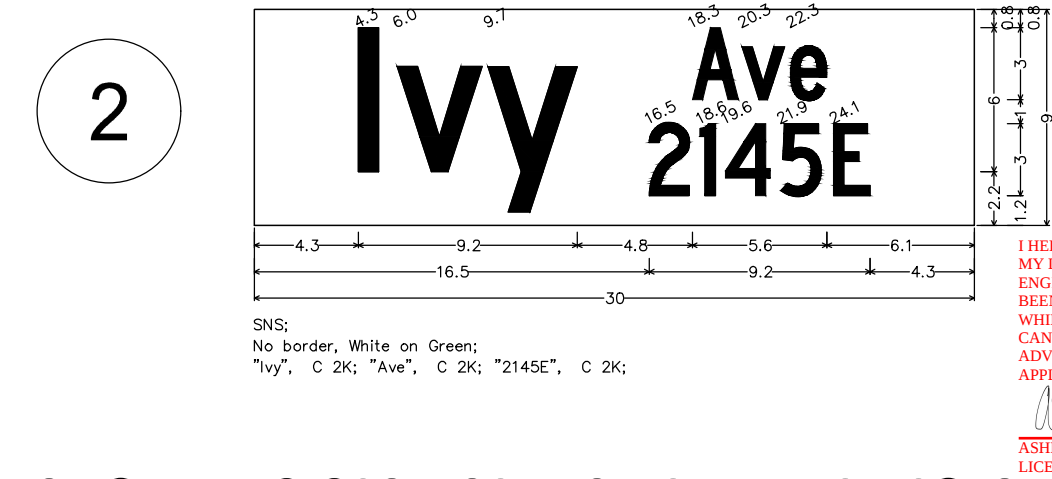
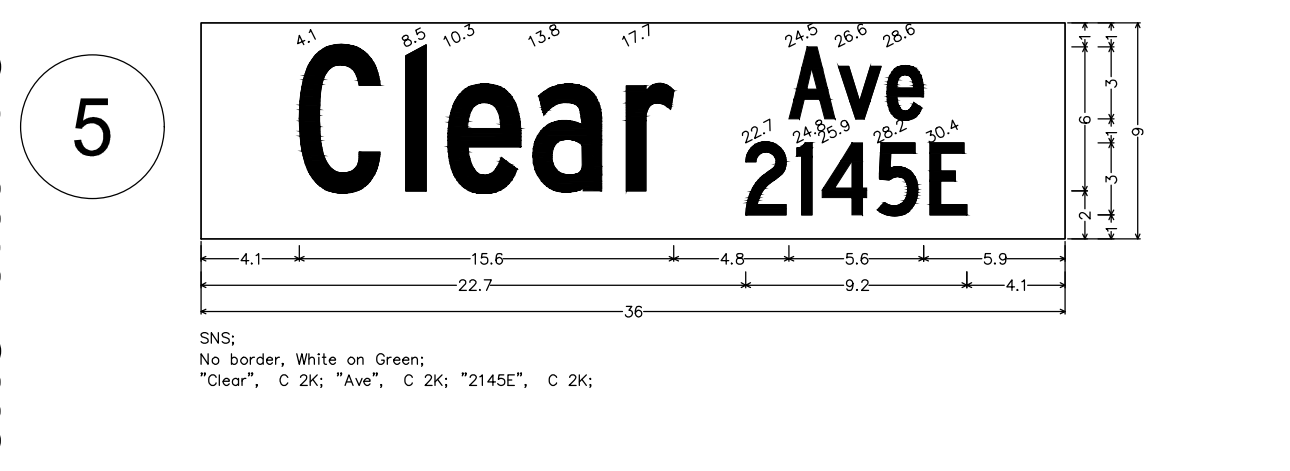
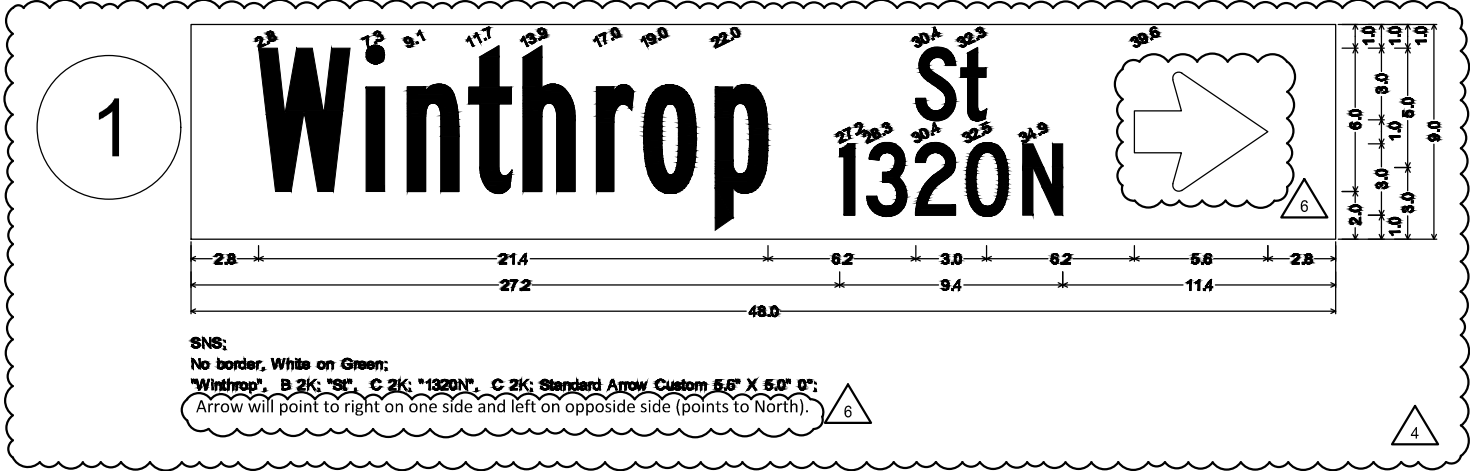
INFRASTRUCTURE
PLANS FOR:
THE HEIGHTS
SAINT PAUL,
MINNESOTA

SIGNING AND
STRIPING
DETAILS

CURRENT REVISION SHEET NO.:

341-R

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CMI NOTE: SEE ALSO
SHEET 342-R, REV. 7
(CIVIL METHODS, INC.)

SCALE: AS SHOWN
DESIGN BY: PJM
PLAN BY: DEH
CHECK BY: PTH

REVISIONS		NO.	DATE	DESCRIPTION
4	06/19/2024	REVISION 4		
6	09/23/2024	100% PLAN COMMENTS		

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

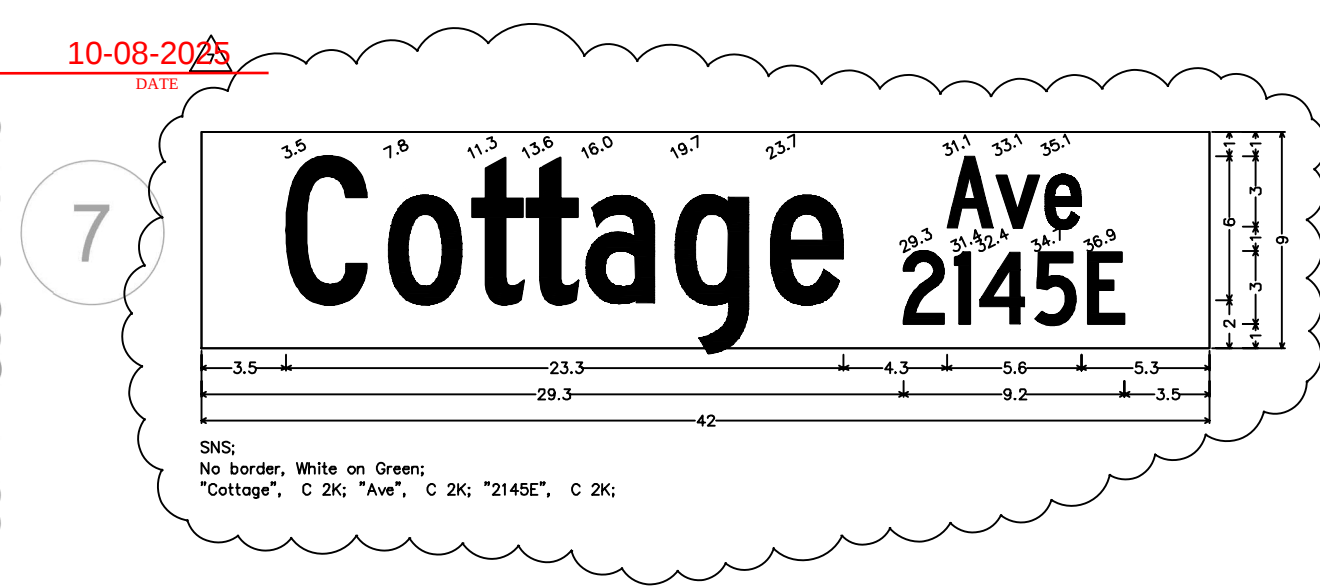
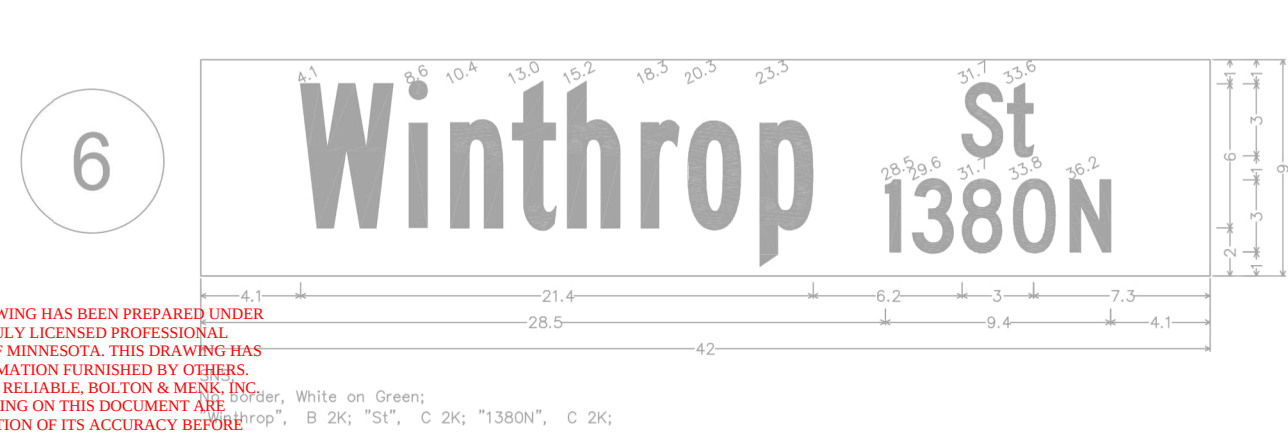
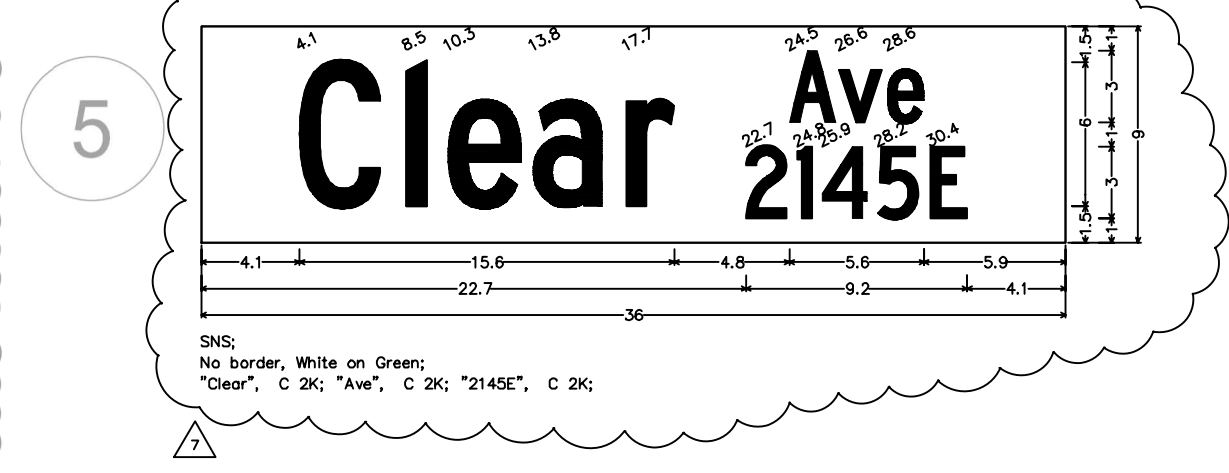
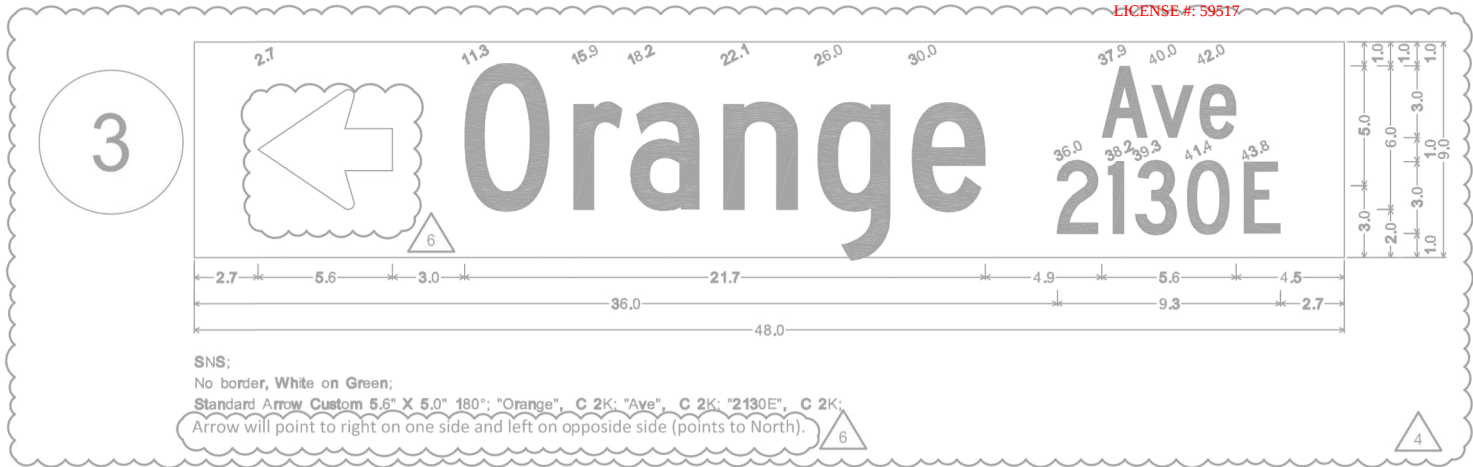
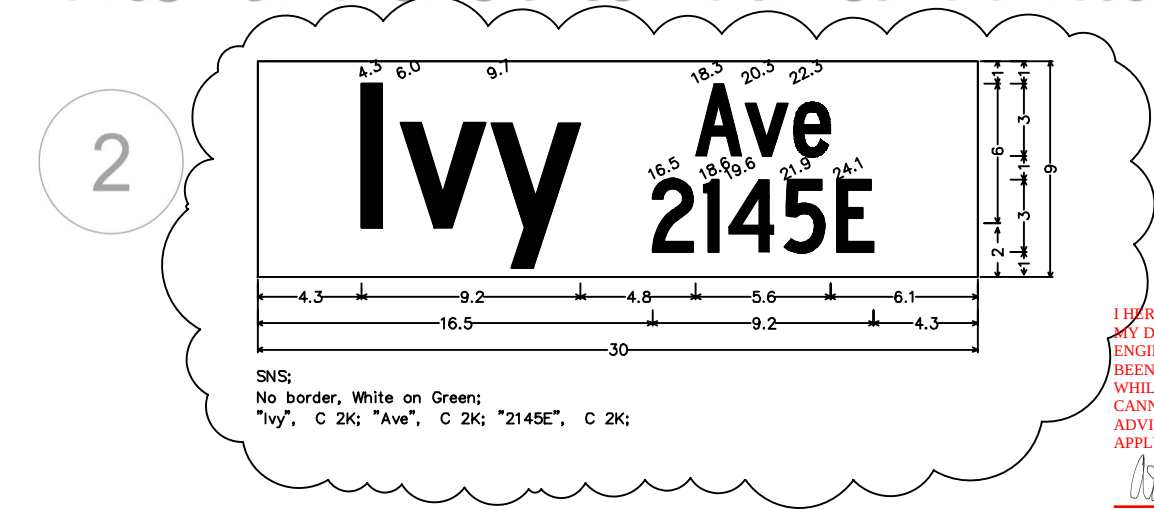
PAUL HORNBY, P.E.
DATE: 03/29/2024 LIC. NO.: 23359

SIGNING AND
STRIPING
DETAILS

INFRASTRUCTURE PLANS FOR:
THE HEIGHTS
SAINT PAUL, MINNESOTA

Saint Paul
Port Authority
400 Wabasha Street North
Suite 240
St Paul, Minnesota 55102
Phone 612-224-5686

WSB PROJECT NO.
013987-000



I HEREBY CERTIFIED THAT THIS RECORD DRAWING HAS BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. THIS DRAWING HAS BEEN PREPARED IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, BOLTON & MENK, INC. CANNOT ASSURE ITS ACCURACY. THOSE RELYING ON THIS DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

Ashleigh K Rosa
ASHLEIGH K ROSA
LICENSE # 59517

10-08-2025
DATE

REVISION 7 DESCRIPTION:

* The base design (faded background) is a copy of the corresponding sheet from The Heights Site Redevelopment, Revision 6, dated 09/23/2024, produced by WSB. The certification below by Civil Methods, Inc. applies only to the Revision 7 modifications shown on this sheet, done in response to comments from the City of St. Paul. Detailed descriptions of Revision 7 changes are included in a separately provided comment log.

Tree locations depicted in the base design are from Revision 6 and have since been updated. Refer to Landscape Plans by LHB for tree locations.

COMMENT #15 ADDRESSED ON THIS SHEET (SEE COMMENT LOG): 6-138, 6-139, 6-140

NO.	DESCRIPTION	DATE
7	Address Rev 6 Comments	7/31/2025

DESIGNED:
DRAWN: KEB
CHECKED: DMP

I HEREBY CERTIFY THAT THIS PLAN*, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Kent E. Brander
KENT E. BRANDER
DATE: 07-31-2025
LIC. #: 44578

CIVIL METHODS, INC.
P.O. Box 28038
St. Paul, MN 55128
PH: 763.210.5713 www.civilmethods.com

OWNER:
Saint Paul
Port Authority
400 Wabasha St N
Ste 240
St. Paul, MN 55102
Phone 612-224-5686

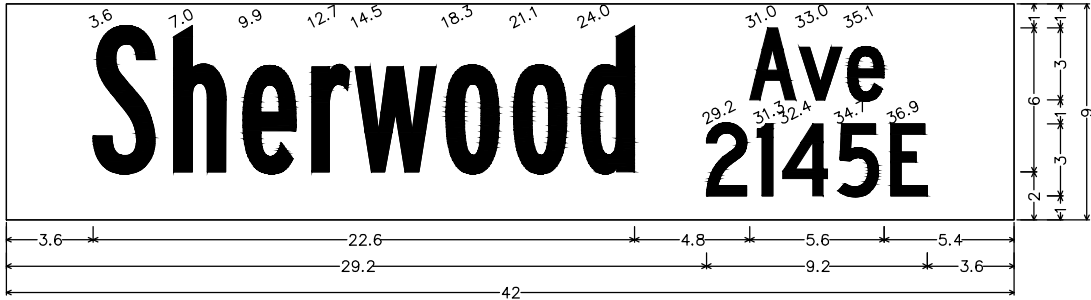
PROJECT:
INFRASTRUCTURE
PLANS FOR:
THE HEIGHTS
SAINT PAUL,
MINNESOTA

**SIGNING AND
STRIPING
DETAILS**

CURRENT REVISION SHEET NO.:
342-R

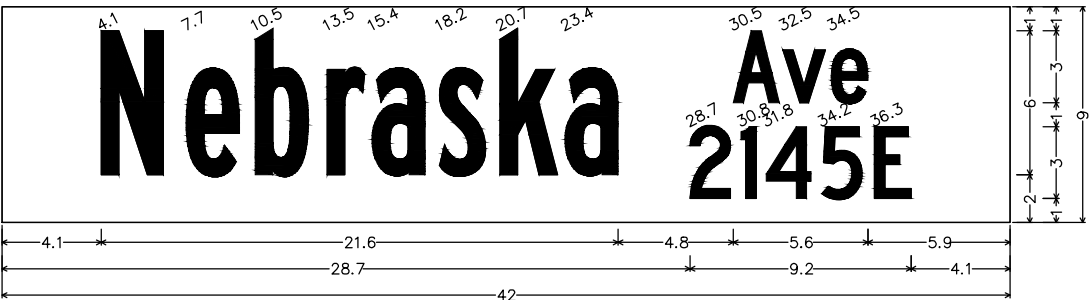
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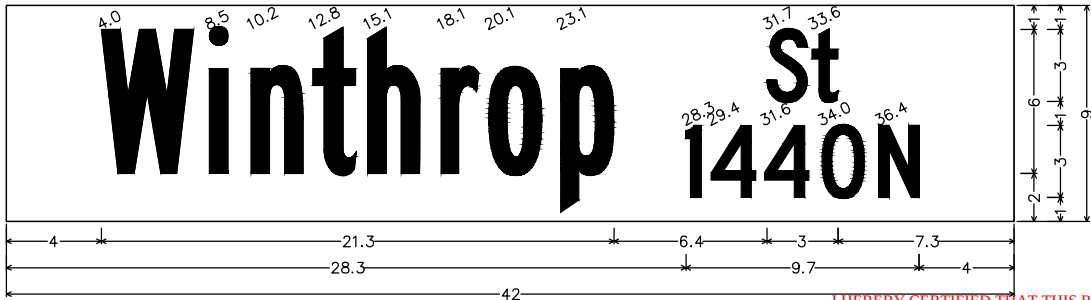
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13



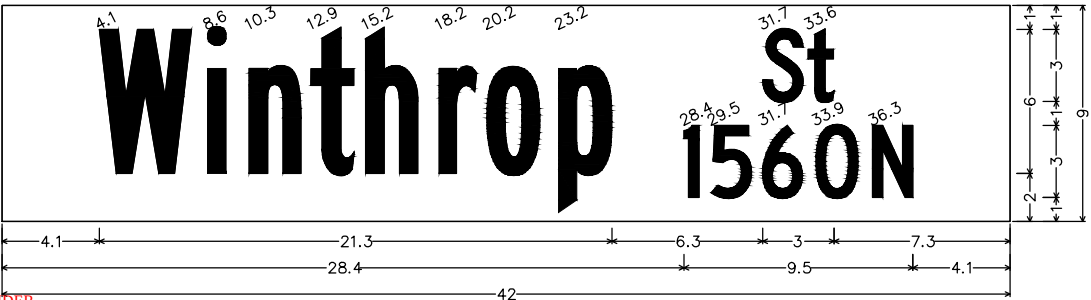
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"Nebraska", B 2K; "Ave", C 2K; "2145E", C 2K;

10



SNS;
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14



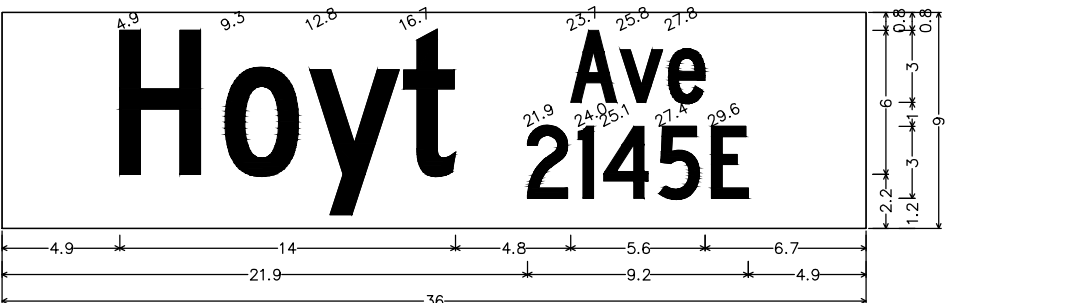
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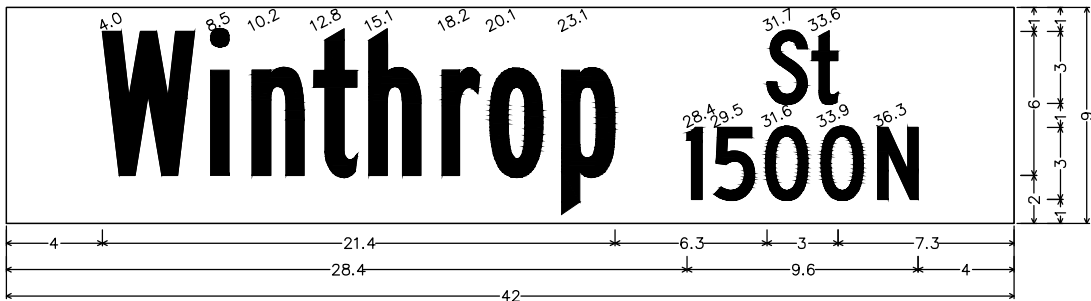
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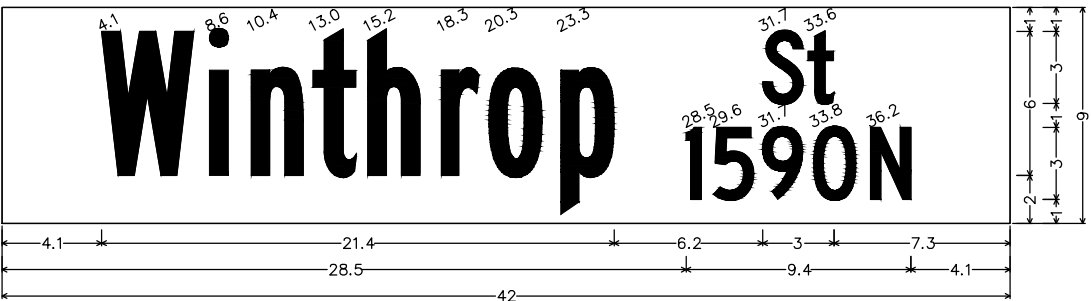
SNS;
No border, White on Green;
"Hoyt", C 2K; "Ave", C 2K; "2145E", C 2K;

12



SNS;
No border, White on Green;
"Winthrop", B 2K; "St", C 2K; "1500N", C 2K;

16



SNS;
No border, White on Green;
"Winthrop", B 2K; "St", C 2K; "1590N", C 2K;

I HEREBY CERTIFY THAT THIS RECORD DRAWING HAS BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. THIS DRAWING HAS BEEN PREPARED IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS, WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, BOLTON & MENK, INC. CANNOT ASSURE ITS ACCURACY. THOSE RELYING ON THIS DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

Ashleigh K Rosa
ASHLEIGH K ROSA
LICENSE #: 59517

10-08-2025
DATE

CMI NOTE: SEE ALSO
SHEET 343-R, REV. 7
(CIVIL METHODS, INC.)

SCALE: AS SHOWN
DESIGN BY: PJM
PLAN BY: DEH
CHECK BY: PTH

REVISIONS

NO.	DATE	DESCRIPTION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Paul Hornby, P.E.
PAUL HORNBY, P.E.
DATE: 03/29/2024 LIC. NO.: 23359

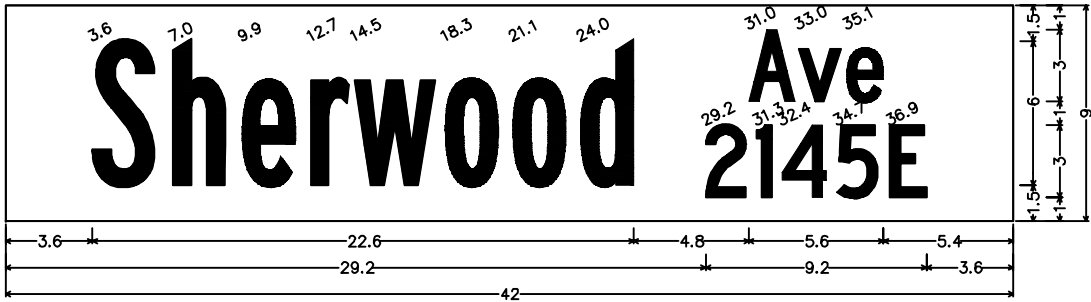
SIGNING AND
STRIPING
DETAILS

INFRASTRUCTURE PLANS FOR:
THE HEIGHTS
SAINT PAUL, MINNESOTA

Saint Paul
Port Authority
400 Wabasha Street North
Suite 240
St Paul, Minnesota 55102
Phone 612-224-5686

WSB PROJECT NO.
013987-000

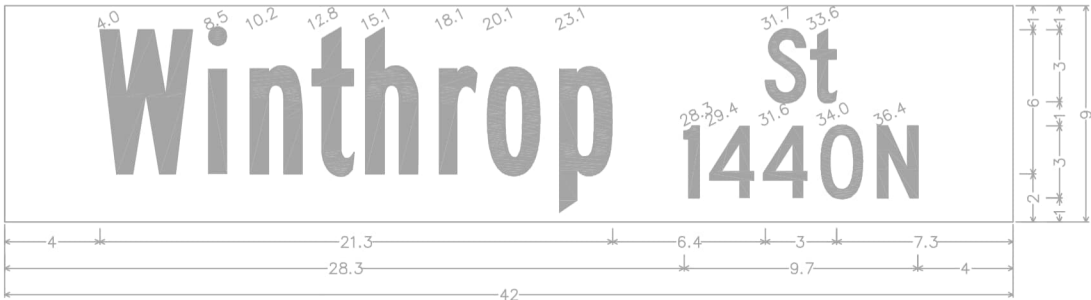
9



SNS;
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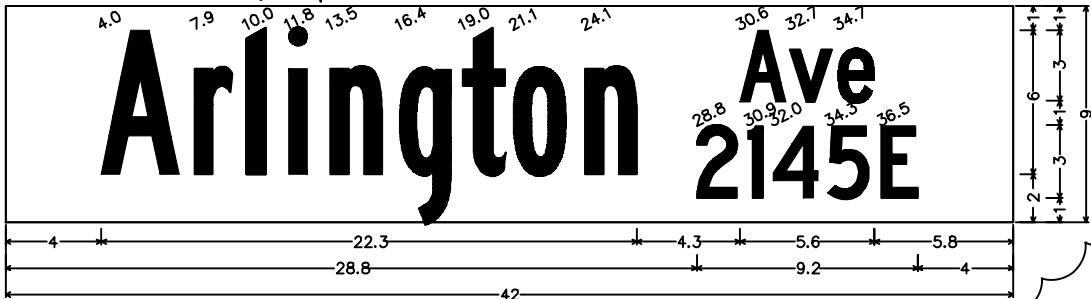
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10



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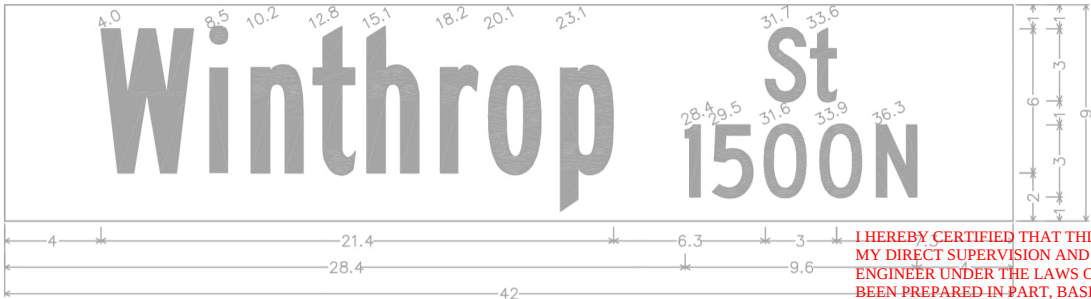
11



SNS;
No border, White on Green;
"Arlington", B 2K; "Ave", C 2K; "2145E", C 2K;

7

12



SNS;
No border, White on Green;
"Winthrop", B 2K; "St", C 2K; "1500N", C 2K;

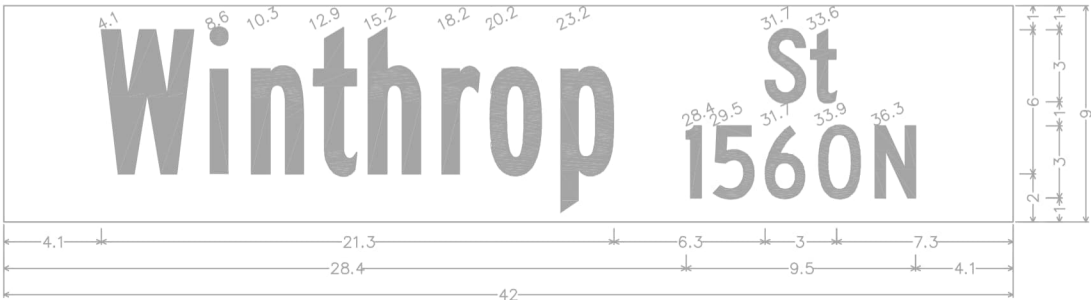
13



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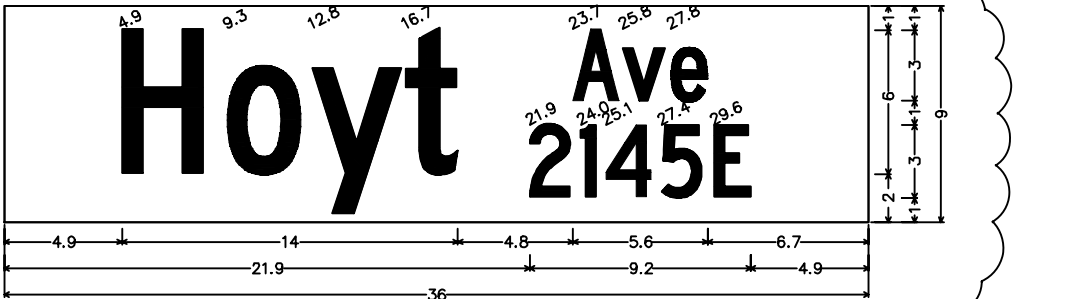
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14



SNS;
No border, White on Green;
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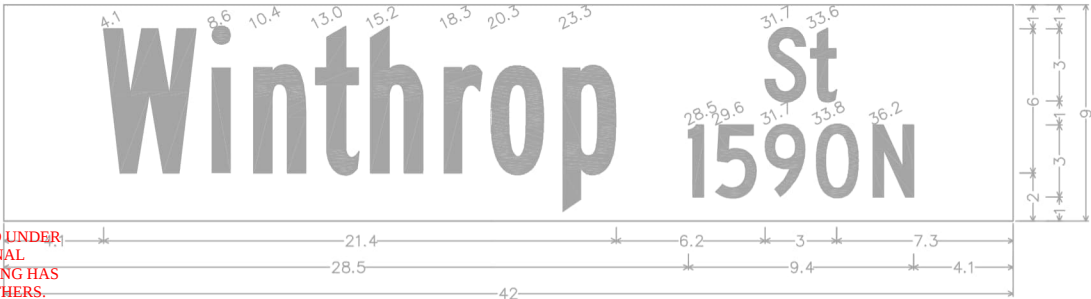
15



SNS;
No border, White on Green;
"Hoyt", C 2K; "Ave", C 2K; "2145E", C 2K;

7

16



SNS;
No border, White on Green;
"Winthrop", B 2K; "St", C 2K; "1590N", C 2K;

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ASHLEIGH K ROSA
LICENSE #: 59517

10-08-2025

DATE

REVISION 7 DESCRIPTION:

* The base design (faded background) is a copy of the corresponding sheet from The Heights Site Redevelopment, Revision 6, dated 09/23/2024, produced by WSB. The certification below by Civil Methods, Inc. applies only to the Revision 7 modifications shown on this sheet, done in response to comments from the City of St. Paul. Detailed descriptions of Revision 7 changes are included in a separately provided comment log.

Tree locations depicted in the base design are from Revision 6 and have since been updated. Refer to Landscape Plans by LHB for tree locations.

COMMENT #15 ADDRESSED ON THIS SHEET (SEE COMMENT LOG): 6-141, 6-142, 6-143, 6-144

NO.	DESCRIPTION	DATE
7	Address Rev 6 Comments	7/31/2025

DESIGNED:

DRAWN: KEB

CHECKED: DMP

I HEREBY CERTIFY THAT THIS PLAN*, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

KENT E. BRANDER

DATE: 07-31-2025

LIC. #: 44578

CIVIL METHODS, INC.
P.O. Box 28038
St. Paul, MN 55128
PH: 763.210.5713 www.civilmethods.com

OWNER: Saint Paul
Port Authority
400 Wabasha St N
Ste 240
St. Paul, MN 55102
Phone 612-224-5686

PROJECT:
INFRASTRUCTURE
PLANS FOR:
THE HEIGHTS
SAINT PAUL,
MINNESOTA

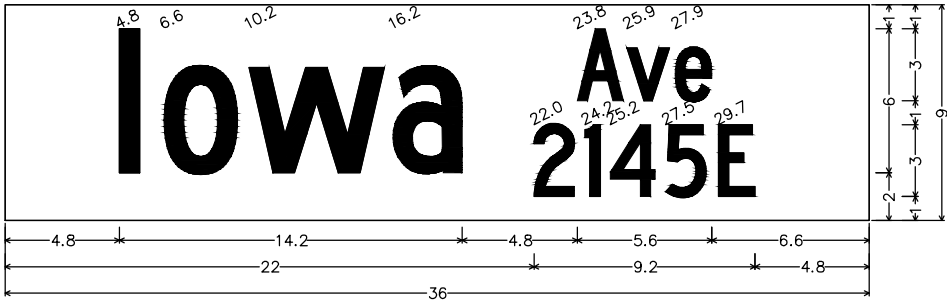
**SIGNING AND
STRIPING
DETAILS**

CURRENT REVISION SHEET NO.:

343-R

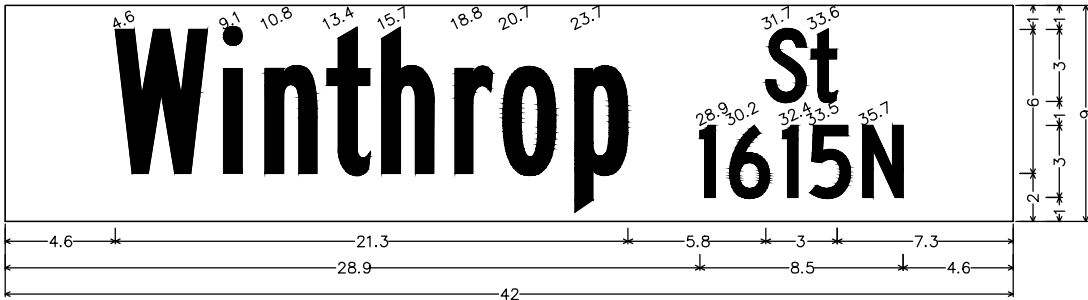
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17



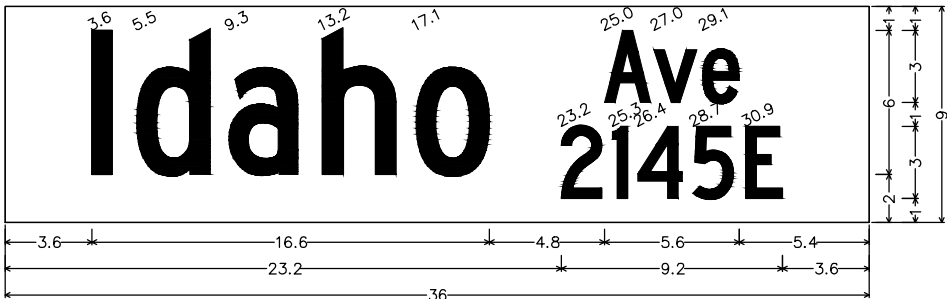
SNS;
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"Iowa", C 2K; "Ave", C 2K; "2145E", C 2K;

18



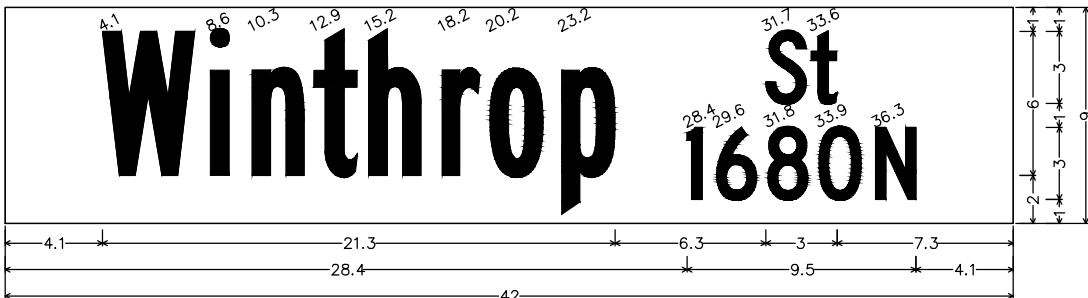
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No border, White on Green;
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19



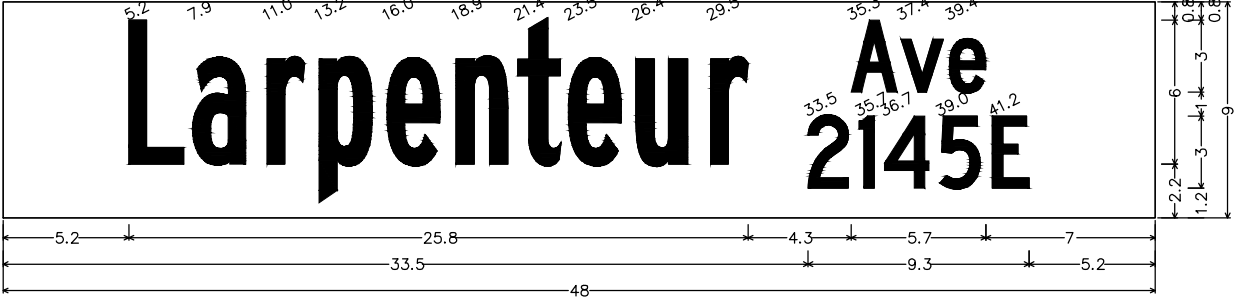
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20



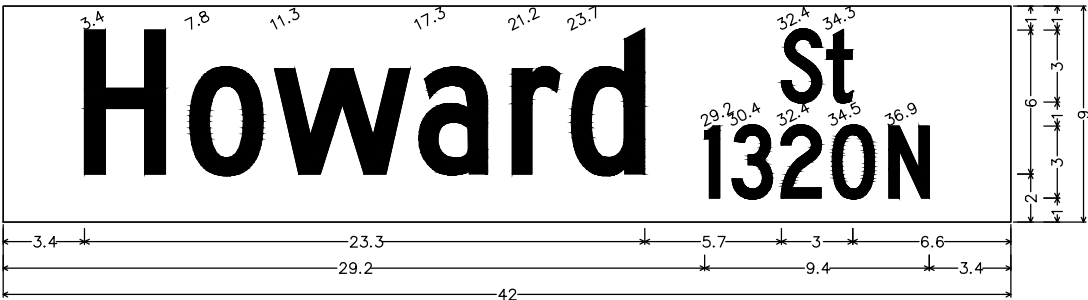
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21



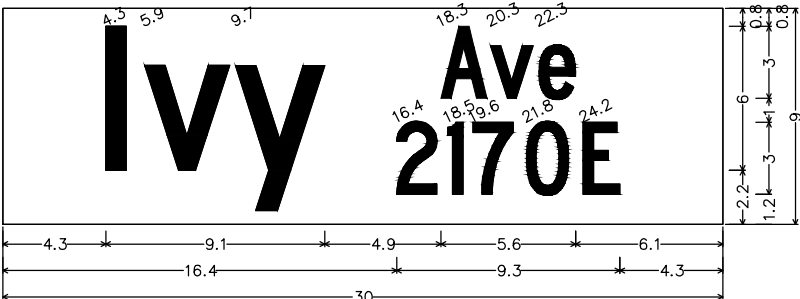
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No border, White on Green;
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22



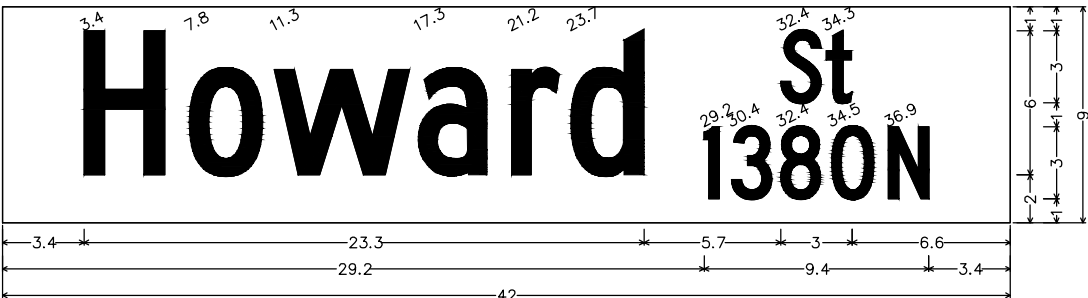
SNS;
No border, White on Green;
"Howard", C 2K; "St", C 2K; "1320N", C 2K;

23



SNS;
No border, White on Green;
"Ivy", C 2K; "Ave", C 2K; "2170E", C 2K;

24



SNS;
No border, White on Green;
"Howard", C 2K; "St", C 2K; "1380N", C 2K;

I HEREBY CERTIFY THAT THIS RECORD DRAWING HAS BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. THIS DRAWING HAS BEEN PREPARED IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, BOLTON & MENK, INC. CANNOT ASSURE ITS ACCURACY. THOSE RELYING ON THIS DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

ASHLEIGH K ROSA
LICENSE #: 59517

10-08-2025
DATE



SCALE: DESIGN BY:
AS SHOWN PJM
PLAN BY: CHECK BY:
DEH PTH

REVISIONS	
NO.	DESCRIPTION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PAUL HORNBY, P.E.
DATE: 03/29/2024 LIC. NO.: 23359

SIGNING AND
STRIPING
DETAILS

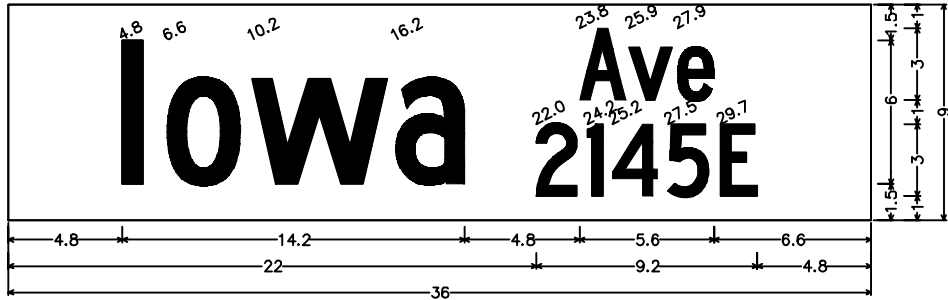
INFRASTRUCTURE PLANS FOR:
THE HEIGHTS
SAINT PAUL, MINNESOTA

Saint Paul
Port Authority
400 Wabasha Street North
Suite 240
St Paul, Minnesota 55102
Phone 612-224-5686

WSB PROJECT NO.
013987-000

CMI NOTE: SEE ALSO
SHEET 344-R, REV. 7
(CIVIL METHODS, INC.)

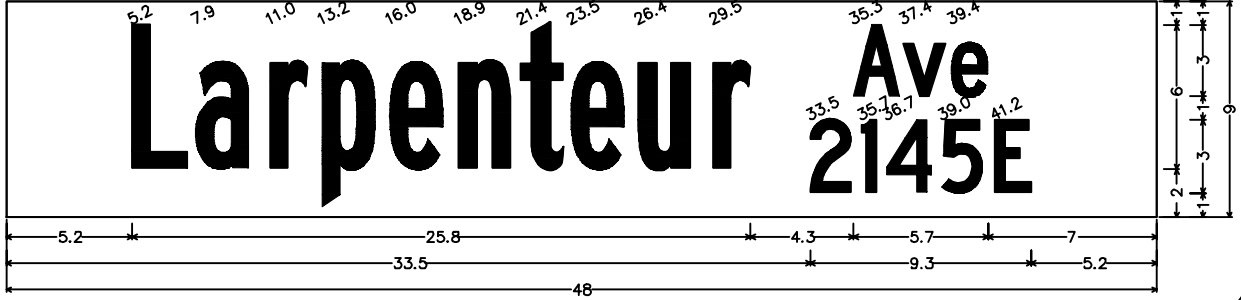
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SNS;
No border, White on Green;
"Iowa", C 2K; "Ave", C 2K; "2145E", C 2K;



21



SNS;
No border, White on Green;
"Larpenteur", B 2K; "Ave", C 2K; "2145E", C 2K;

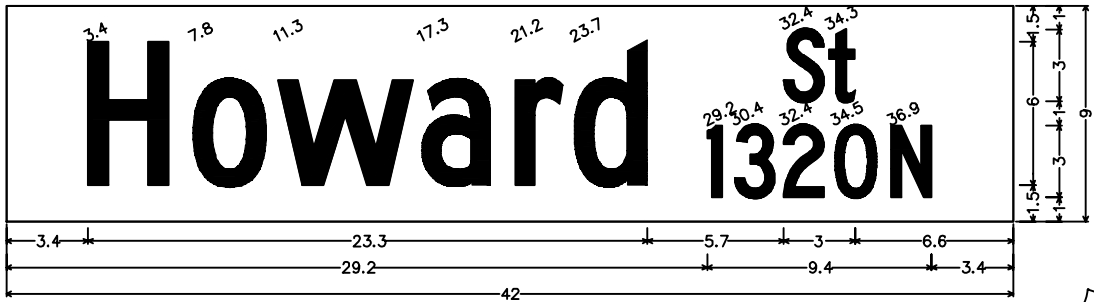


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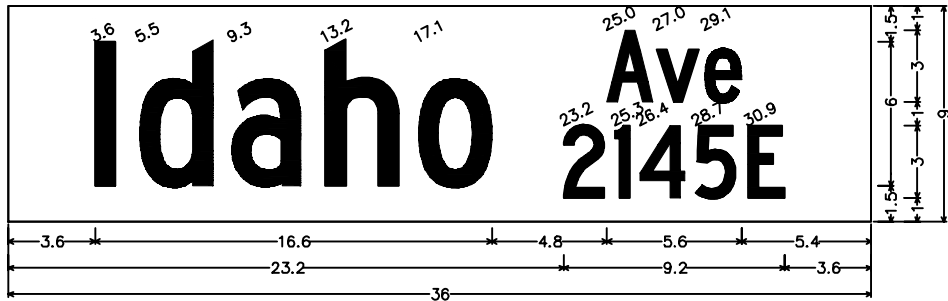
SNS;
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22



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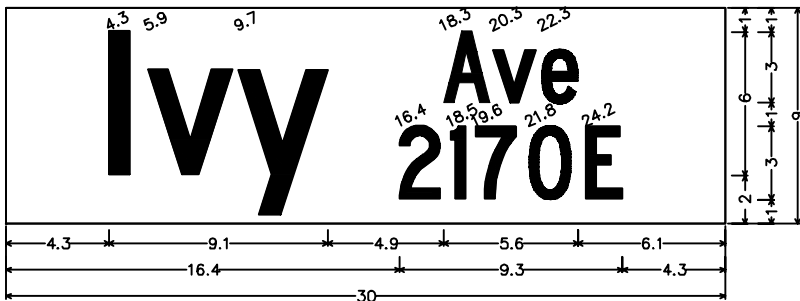
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SNS;
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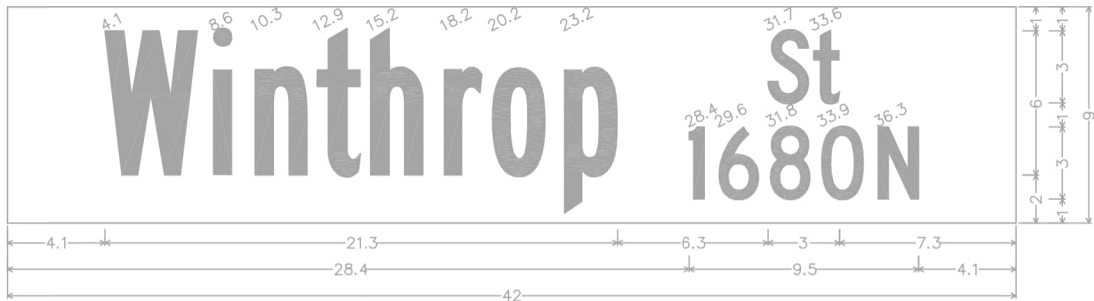
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SNS;
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"Ivy", C 2K; "Ave", C 2K; "2170E", C 2K;

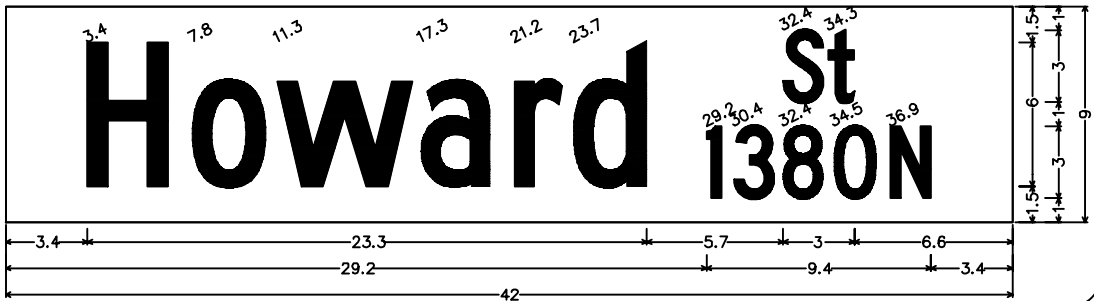


20



SNS;
No border, White on Green;
"Winthrop", B 2K; "St", C 2K; "1680N", C 2K;

24



SNS;
No border, White on Green;
"Howard", C 2K; "St", C 2K; "1380N", C 2K;



REVISION 7 DESCRIPTION:
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COMMENT #15 ADDRESSED ON THIS SHEET (SEE COMMENT LOG): 6-145, 6-146, 6-147, 6-148, 6-149, 6-150
I HEREBY CERTIFY THAT THIS RECORD DRAWING HAS BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. THIS DRAWING HAS BEEN PREPARED IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, BOLTON & MENK, INC. CANNOT ASSURE ITS ACCURACY. THOSE RELYING ON THIS DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

10-08-2025
DATE
ASHLEIGH K ROSA
LICENSE # 59517

NO.	DESCRIPTION	DATE
7	Address Rev 6 Comments	7/31/2025

DESIGNED:
DRAWN: KEB
CHECKED: DMP
I HEREBY CERTIFY THAT THIS PLAN*, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
KENT E. BRANDER
DATE: 07-31-2025
LIC. #: 44578

CIVIL METHODS, INC.
P.O. Box 28038
St. Paul, MN 55128
PH: 763.210.5713 www.civilmethods.com

OWNER:
Saint Paul
Port Authority
400 Wabasha St N
Ste 240
St. Paul, MN 55102
Phone 612-224-5686

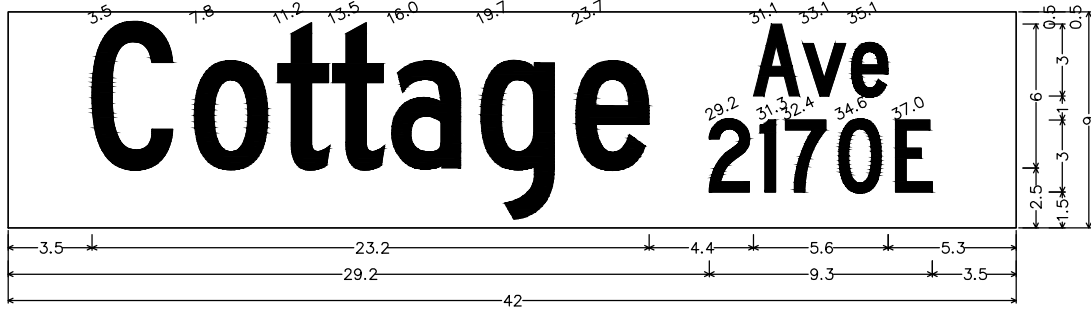
PROJECT:
INFRASTRUCTURE
PLANS FOR:
THE HEIGHTS
SAINT PAUL,
MINNESOTA

SIGNING AND
STRIPING
DETAILS

CURRENT REVISION SHEET NO.:
344-R

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25

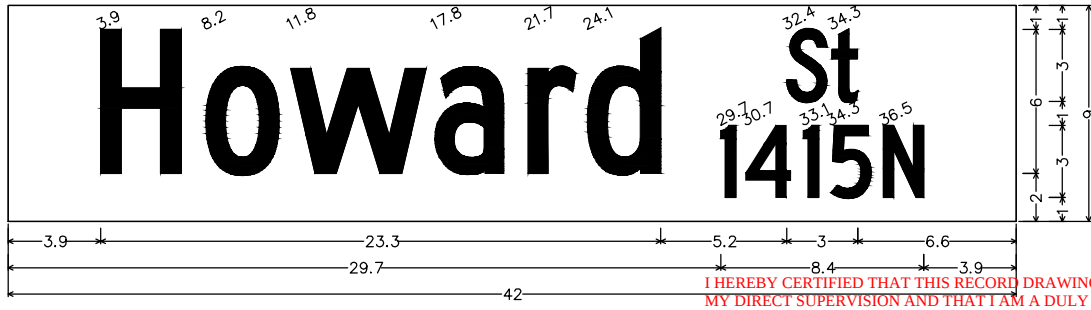


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29

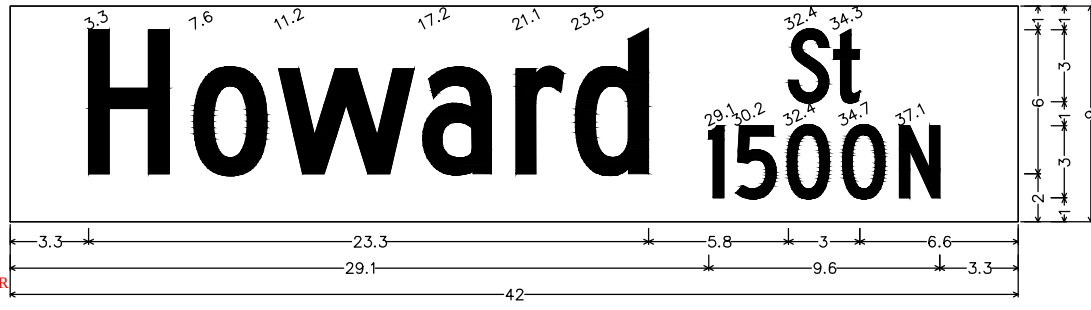


26



SNS;
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30

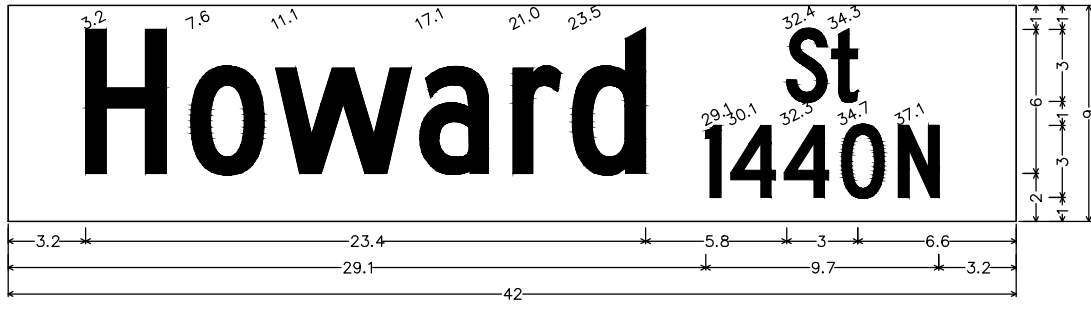


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27

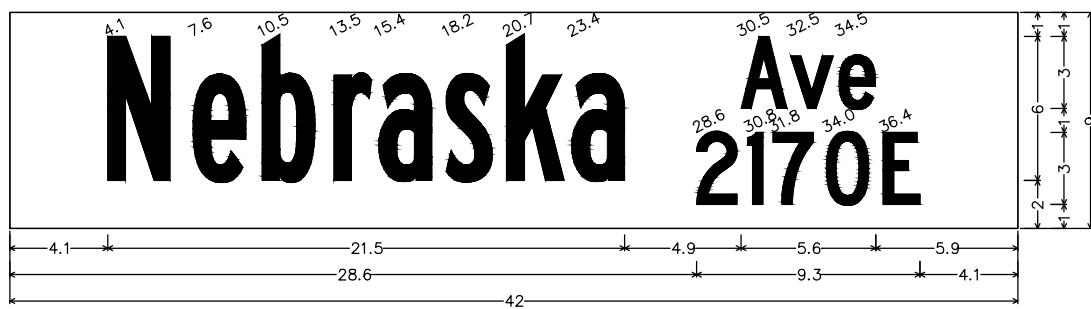


28



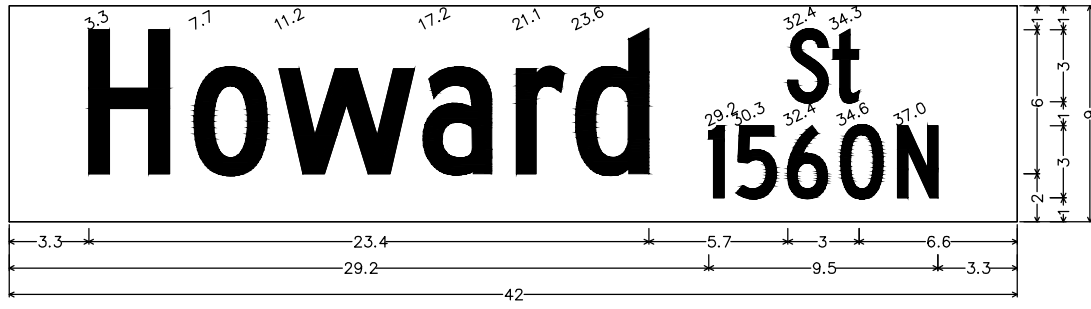
SNS;
No border, White on Green;
"Howard", C 2K; "St", C 2K; "1440N", C 2K;

31



SNS;
No border, White on Green;
"Nebraska", B 2K; "Ave", C 2K; "2170E", C 2K;

32



SNS;
No border, White on Green;
"Howard", C 2K; "St", C 2K; "1560N", C 2K;

I HEREBY CERTIFIED THAT THIS RECORD DRAWING HAS BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. THIS DRAWING HAS BEEN PREPARED IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, BOLTON & MENK, INC. CANNOT ASSURE ITS ACCURACY. THOSE RELYING ON THIS DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

Ashleigh K Rosa
ASHLEIGH K ROSA
LICENSE # 59517

10-08-2025

DATE

CMI NOTE: SEE ALSO
SHEET 345-R, REV. 7
(CIVIL METHODS, INC.)

SCALE: DESIGN BY:
AS SHOWN PJM
PLAN BY: CHECK BY:
DEH PTH

REVISIONS

NO.	DATE	DESCRIPTION

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Paul Hornby, P.E.
PAUL HORNBY, P.E.
DATE: 03/29/2024 LIC. NO. 23359

SIGNING AND
STRIPING
DETAILS

INFRASTRUCTURE PLANS FOR:
THE HEIGHTS
SAINT PAUL, MINNESOTA

Saint Paul
Port Authority
400 Wabasha Street North
Suite 240
St Paul, Minnesota 55102
Phone 612-224-5686

WSB PROJECT NO.
013987-000

Technical drawing of a street sign for "Cottage Ave" and "2170E". The sign is rectangular with a black background and white text. The word "Cottage" is in a large, bold, sans-serif font. To its right, "Ave" is in a smaller, bold, sans-serif font, and "2170E" is in a large, bold, sans-serif font. Dimensions are provided for the text and the sign itself.

Measurement	Value
Top width of "Cottage" (ascenders)	3.5
Top width of "Cottage" (x-height)	7.8
Top width of "Cottage" (ascenders)	11.2
Top width of "Cottage" (x-height)	13.5
Top width of "Cottage" (ascenders)	16.0
Top width of "Cottage" (x-height)	19.7
Top width of "Cottage" (ascenders)	23.7
Top width of "Ave" (ascenders)	31.1
Top width of "Ave" (x-height)	33.1
Top width of "Ave" (ascenders)	35.1
Top width of "2170E" (ascenders)	29.2
Top width of "2170E" (x-height)	31.3
Top width of "2170E" (ascenders)	32.4
Top width of "2170E" (x-height)	34.6
Top width of "2170E" (ascenders)	37.0
Bottom width of "Cottage" (ascenders)	3.5
Bottom width of "Cottage" (x-height)	23.2
Bottom width of "Cottage" (ascenders)	4.4
Bottom width of "Cottage" (x-height)	5.6
Bottom width of "Cottage" (ascenders)	5.3
Bottom width of "Ave" (ascenders)	29.2
Bottom width of "Ave" (x-height)	9.3
Bottom width of "Ave" (ascenders)	3.5
Bottom width of "2170E" (ascenders)	42
Right height of "Cottage" (ascenders)	6
Right height of "Cottage" (x-height)	3
Right height of "Cottage" (ascenders)	1
Right height of "Cottage" (x-height)	0
Right height of "Ave" (ascenders)	2
Right height of "Ave" (x-height)	1
Right height of "Ave" (ascenders)	3
Right height of "Ave" (x-height)	1
Right height of "Ave" (ascenders)	1
Right height of "Ave" (x-height)	0
Right height of "2170E" (ascenders)	1
Right height of "2170E" (x-height)	0
Right height of "2170E" (ascenders)	1
Right height of "2170E" (x-height)	0

Graphic showing the lettering "Howard" and "St 1415N" with dimensions for height and width. The letters are in a bold, sans-serif font. Dimensions are provided in feet and inches.

Letter	Height (ft)	Width (ft)
H	3.9	23.3
o	8.2	5.2
w	11.8	3
a	17.8	6.6
r	21.7	3.9
d	24.1	8.4
St	32.4	3.9
1415N	36.5	3.9

Technical drawing of a nameplate for "Howard St 1440N". The nameplate is rectangular with a width of 42 inches and a height of 9 inches. The text is arranged in two lines: "Howard" on the top line and "St 1440N" on the bottom line. The "St" is positioned to the right of "Howard". The dimensions are as follows:

- Overall width: 42 inches
- Overall height: 9 inches
- Top line height: 3.2 inches
- Bottom line height: 3.2 inches
- Distance between top and bottom lines: 29.1 inches
- Distance from left edge to start of "Howard": 3.2 inches
- Distance from end of "Howard" to start of "St": 5.8 inches
- Distance from end of "St" to right edge: 3.2 inches
- Distance from left edge to start of "St": 23.4 inches
- Distance from end of "St" to right edge: 6.6 inches
- Distance from left edge to start of "1440N": 29.1 inches
- Distance from end of "1440N" to right edge: 3.2 inches
- Distance from left edge to start of "1440N": 29.1 inches
- Distance from end of "1440N" to right edge: 3.2 inches

The text "Howard" is in a large, bold, sans-serif font. The text "St" is in a smaller, bold, sans-serif font. The text "1440N" is in a large, bold, sans-serif font. The dimensions are indicated by dimension lines with arrows and numerical values.

Technical drawing of a street sign for "Arlington Ave" and "2170E". The sign is rectangular with a black border. The text "Arlington" is in a large, bold, sans-serif font. "Ave" is in a smaller, bold, sans-serif font. "2170E" is in a bold, sans-serif font. Dimensions are provided for the text and the sign itself.

Measurement	Value
Sign Width	42
Sign Height	9
Arlington (ascender)	3.9
Arlington (x-height)	7.8
Arlington (ascender)	10.0
Arlington (x-height)	11.7
Arlington (ascender)	13.5
Arlington (x-height)	16.4
Arlington (ascender)	19.0
Arlington (x-height)	21.1
Arlington (ascender)	24.1
Ave (ascender)	30.6
Ave (x-height)	32.7
Ave (ascender)	34.7
2170E (ascender)	28.8
2170E (x-height)	30.9
2170E (ascender)	31.9
2170E (x-height)	34.2
2170E (ascender)	36.5
Sign Width (to center)	3.9
Sign Width (to center)	22.4
Sign Width (to center)	4.3
Sign Width (to center)	5.6
Sign Width (to center)	5.8
Sign Width (to center)	28.8
Sign Width (to center)	9.3
Sign Width (to center)	3.9

Figure 1 shows the dimensions of the test specimen. The specimen is a rectangular plate with a width of 42 mm and a height of 9 mm. The top surface features a large 'Howard' logo and a smaller 'St 1500N' logo. Dimensions for the logos and the plate are provided in millimeters.

Dimension	Value (mm)
Plate Width	42
Plate Height	9
Howard Logo Width	29.1
Howard Logo Height	23.3
St 1500N Logo Width	9.6
St 1500N Logo Height	6.6
Plate Thickness	1.5

Technical drawing of a street sign for Nebraska Ave 2170E. The sign is rectangular with a black border. The text "Nebraska" is in a large, bold, sans-serif font, and "Ave 2170E" is in a smaller, bold, sans-serif font. The drawing includes dimension lines for the sign's overall size and the spacing between the letters and the text blocks.

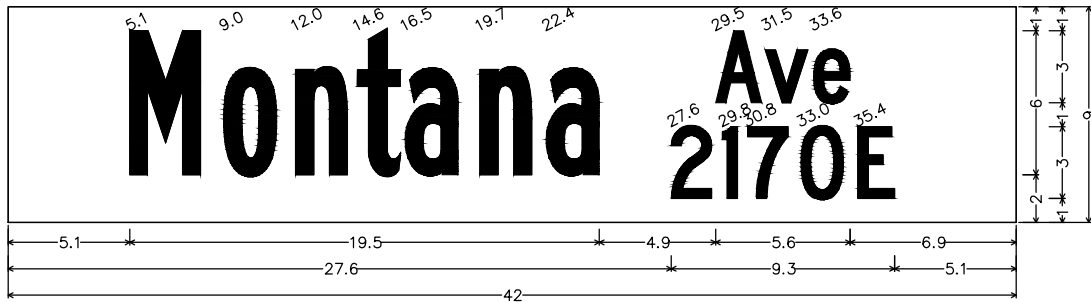
Dimension	Value
Overall Width	47
Overall Height	9
Letter Height (N)	10.5
Letter Height (e)	7.6
Letter Height (A)	4.1
Letter Height (v)	13.5
Letter Height (e)	15.4
Letter Height (2)	18.2
Letter Height (1)	20.7
Letter Height (7)	23.4
Letter Height (0)	30.5
Letter Height (E)	32.5
Letter Height (A)	34.5
Letter Height (v)	28.6
Letter Height (e)	30.8
Letter Height (2)	31.8
Letter Height (1)	34.0
Letter Height (7)	36.4
Letter Height (0)	38.6
Letter Height (E)	40.8
Letter Height (A)	42.9
Letter Height (v)	45.0
Letter Height (e)	47.1
Letter Height (2)	49.2
Letter Height (1)	51.3
Letter Height (7)	53.4
Letter Height (0)	55.5
Letter Height (E)	57.6
Letter Height (A)	59.7
Letter Height (v)	61.8
Letter Height (e)	63.9
Letter Height (2)	66.0
Letter Height (1)	68.1
Letter Height (7)	70.2
Letter Height (0)	72.3
Letter Height (E)	74.4
Letter Height (A)	76.5
Letter Height (v)	78.6
Letter Height (e)	80.7
Letter Height (2)	82.8
Letter Height (1)	84.9
Letter Height (7)	87.0
Letter Height (0)	89.1
Letter Height (E)	91.2
Letter Height (A)	93.3
Letter Height (v)	95.4
Letter Height (e)	97.5
Letter Height (2)	99.6
Letter Height (1)	101.7
Letter Height (7)	103.8
Letter Height (0)	105.9
Letter Height (E)	108.0
Letter Height (A)	110.1
Letter Height (v)	112.2
Letter Height (e)	114.3
Letter Height (2)	116.4
Letter Height (1)	118.5
Letter Height (7)	120.6
Letter Height (0)	122.7
Letter Height (E)	124.8
Letter Height (A)	126.9
Letter Height (v)	129.0
Letter Height (e)	131.1
Letter Height (2)	133.2
Letter Height (1)	135.3
Letter Height (7)	137.4
Letter Height (0)	139.5
Letter Height (E)	141.6
Letter Height (A)	143.7
Letter Height (v)	145.8
Letter Height (e)	147.9
Letter Height (2)	150.0
Letter Height (1)	152.1
Letter Height (7)	154.2
Letter Height (0)	156.3
Letter Height (E)	158.4
Letter Height (A)	160.5
Letter Height (v)	162.6
Letter Height (e)	164.7
Letter Height (2)	166.8
Letter Height (1)	168.9
Letter Height (7)	171.0
Letter Height (0)	173.1
Letter Height (E)	175.2
Letter Height (A)	177.3
Letter Height (v)	179.4
Letter Height (e)	181.5
Letter Height (2)	183.6
Letter Height (1)	185.7
Letter Height (7)	187.8
Letter Height (0)	189.9
Letter Height (E)	192.0
Letter Height (A)	194.1
Letter Height (v)	196.2
Letter Height (e)	198.3
Letter Height (2)	200.4
Letter Height (1)	202.5
Letter Height (7)	204.6
Letter Height (0)	206.7
Letter Height (E)	208.8
Letter Height (A)	210.9
Letter Height (v)	213.0
Letter Height (e)	215.1
Letter Height (2)	217.2
Letter Height (1)	219.3
Letter Height (7)	221.4
Letter Height (0)	223.5
Letter Height (E)	225.6
Letter Height (A)	227.7
Letter Height (v)	229.8
Letter Height (e)	231.9
Letter Height (2)	234.0
Letter Height (1)	236.1
Letter Height (7)	238.2
Letter Height (0)	240.3
Letter Height (E)	242.4
Letter Height (A)	244.5
Letter Height (v)	246.6
Letter Height (e)	248.7
Letter Height (2)	250.8
Letter Height (1)	252.9
Letter Height (7)	255.0
Letter Height (0)	257.1
Letter Height (E)	259.2
Letter Height (A)	261.3
Letter Height (v)	263.4
Letter Height (e)	265.5
Letter Height (2)	267.6
Letter Height (1)	269.7
Letter Height (7)	271.8
Letter Height (0)	273.9
Letter Height (E)	276.0
Letter Height (A)	278.1
Letter Height (v)	280.2
Letter Height (e)	282.3
Letter Height (2)	284.4
Letter Height (1)	286.5
Letter Height (7)	288.6
Letter Height (0)	290.7
Letter Height (E)	292.8
Letter Height (A)	2

Figure 1 shows the dimensions of the test specimen. The specimen is a rectangular plate with a width of 42 mm and a height of 9 mm. The top surface is labeled 'Howard' and '1560N'. The bottom surface is labeled '1560N'. The dimensions are given in mm. The top surface has a width of 42 mm and a height of 9 mm. The bottom surface has a width of 42 mm and a height of 9 mm. The top surface has a width of 42 mm and a height of 9 mm. The bottom surface has a width of 42 mm and a height of 9 mm.

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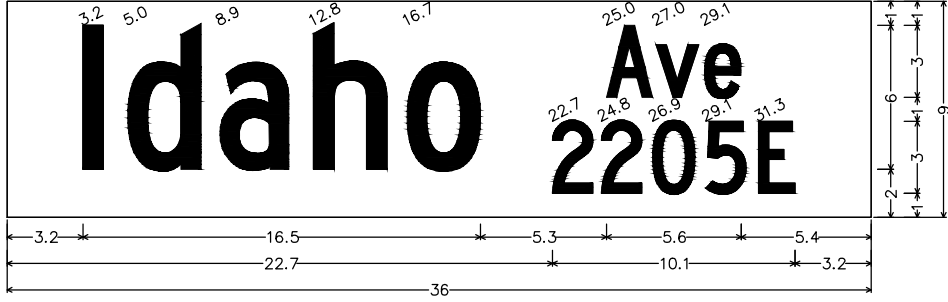
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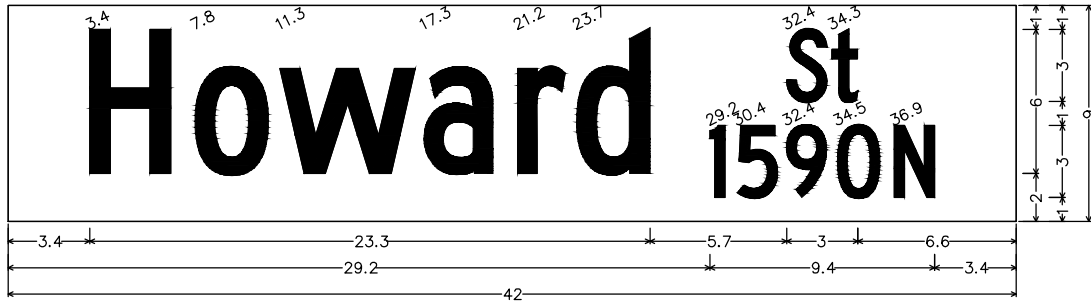
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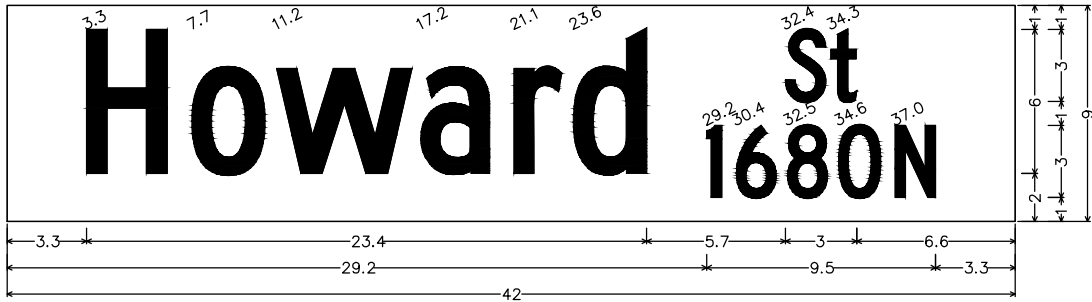
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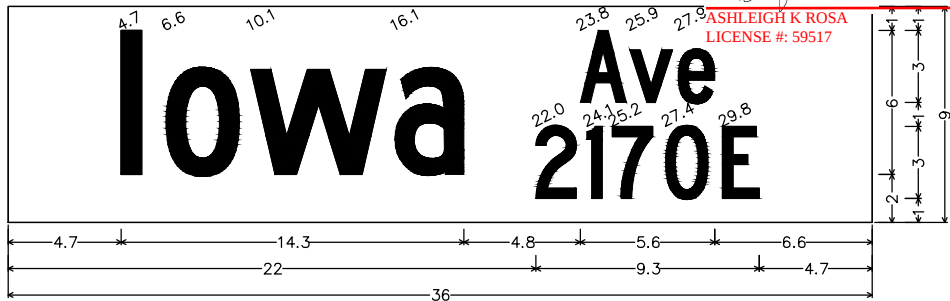
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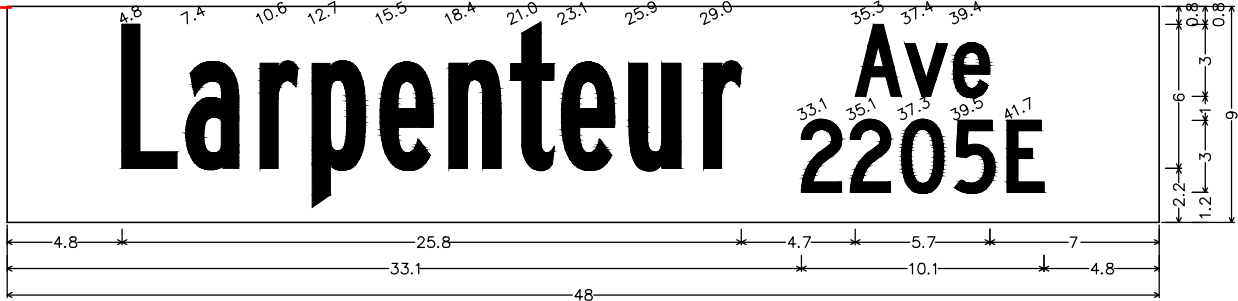
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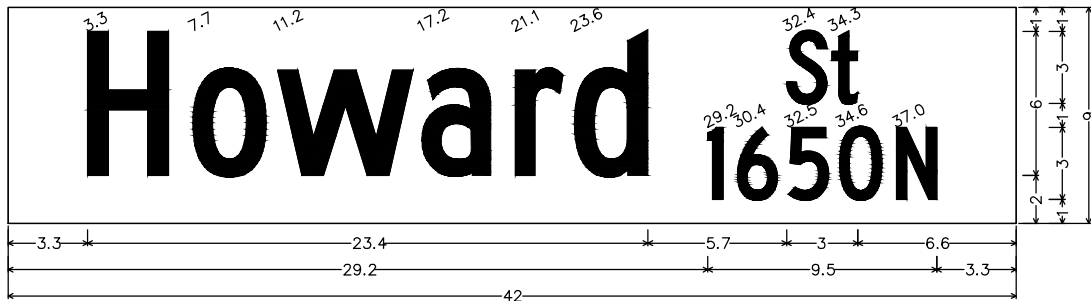
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"Iowa", C 2K; "Ave", C 2K; "2170E", C 2K;

39



SNS;
No border, White on Green;
"Larpenteur", B 2K; "Ave", C 2K; "2205E", C 2K;

36



SNS;
No border, White on Green;
"Howard", C 2K; "St", C 2K; "1650N", C 2K;

40



SNS;
No border, White on Green;
"McKnight", B 2K; "Rd", C 2K; "1320N", C 2K;

I HEREBY CERTIFIED THAT THIS RECORD DRAWING HAS BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. THIS DRAWING HAS BEEN PREPARED IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, BOLTON & MENK, INC. CANNOT ASSURE ITS ACCURACY. THOSE RELYING ON THIS DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

Ashleigh K Rosa

ASHLEIGH K ROSA
LICENSE #: 59517

10-08-2025

DATE

CMI NOTE: SEE ALSO
SHEET 346-R, REV. 7
(CIVIL METHODS, INC.)

SCALE: AS SHOWN
DESIGN BY: PJM
PLAN BY: DEH
CHECK BY: PTH

REVISIONS

NO.	DATE	DESCRIPTION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Paul Hornby, P.E.
PAUL HORNBY, P.E.

DATE: 03/29/2024 LIC. NO.: 23359

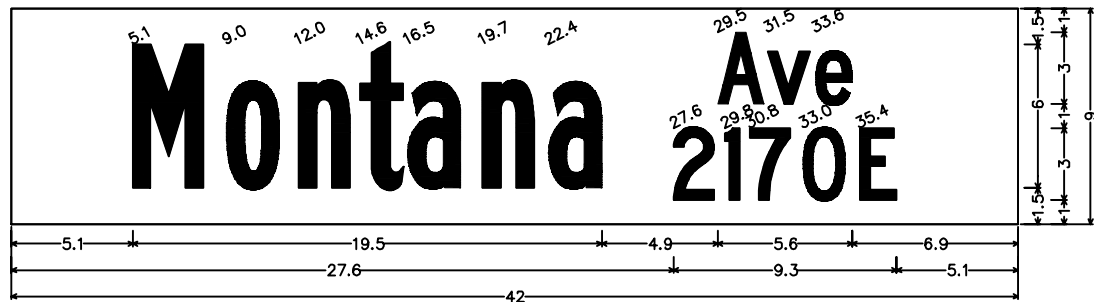
SIGNING AND
STRIPING
DETAILS

INFRASTRUCTURE PLANS FOR:
THE HEIGHTS
SAINT PAUL, MINNESOTA

Saint Paul
Port Authority
400 Wabasha Street North
Suite 240
St Paul, Minnesota 55102
Phone 612-224-5686

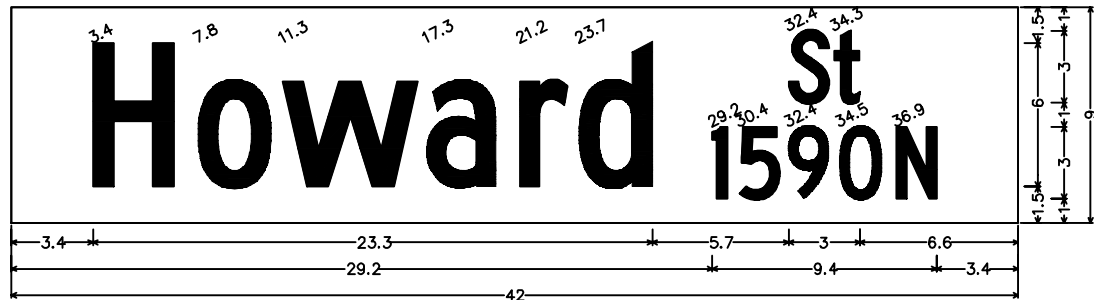
WSB PROJECT NO.
013987-000

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SNS;
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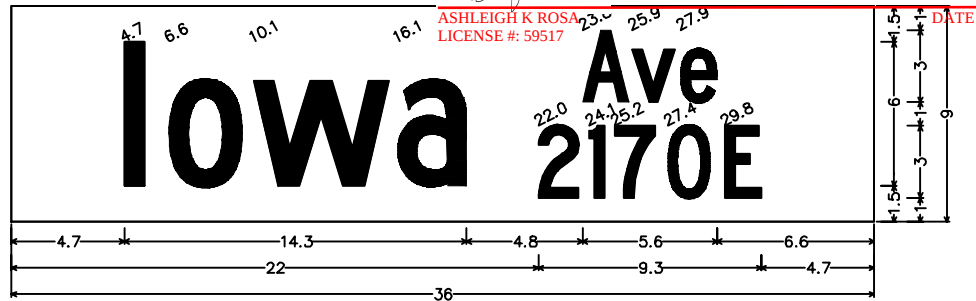
I HEREBY CERTIFIED THAT THIS RECORD DRAWING HAS BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. THIS DRAWING HAS BEEN PREPARED IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, BOLTON & MENK, INC. CANNOT ASSURE ITS ACCURACY. THOSE RELYING ON THIS DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

Ashleigh K. Rosa

10-08-2025

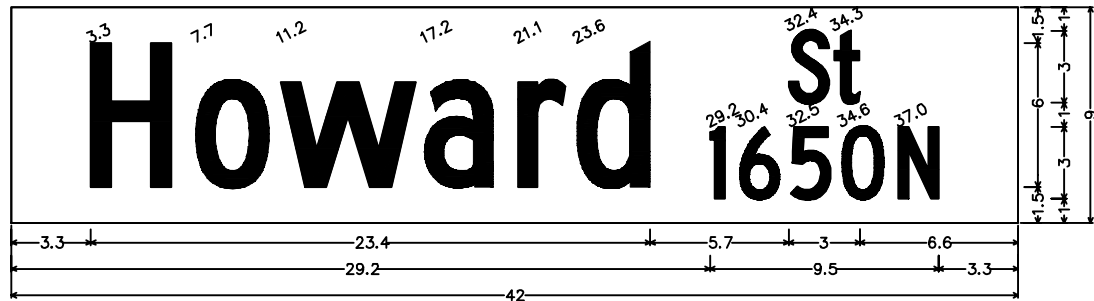
ASHLEIGH K ROSA
LICENSE #: 59517

35



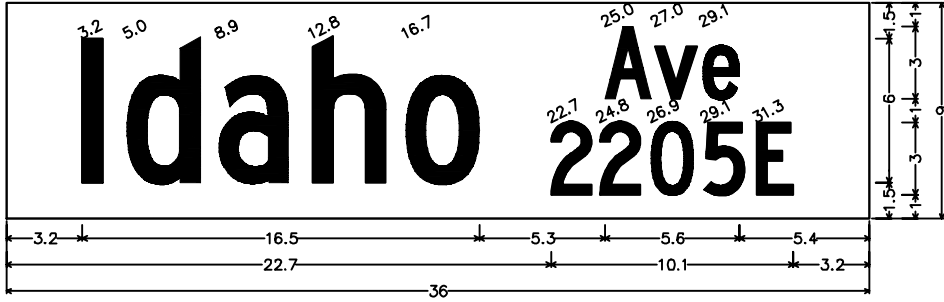
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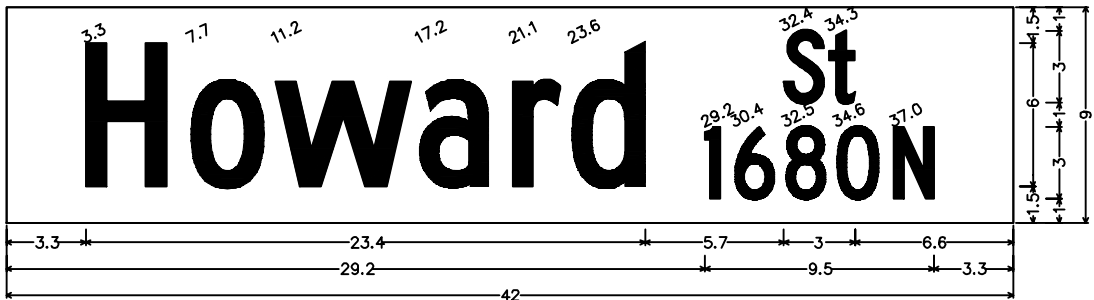
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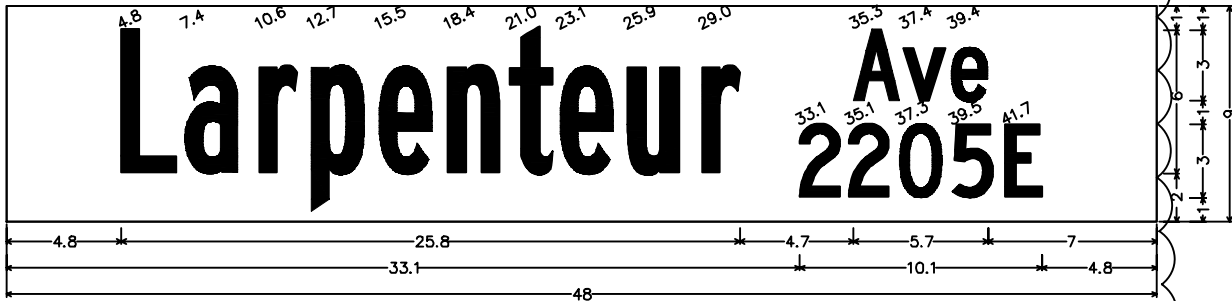
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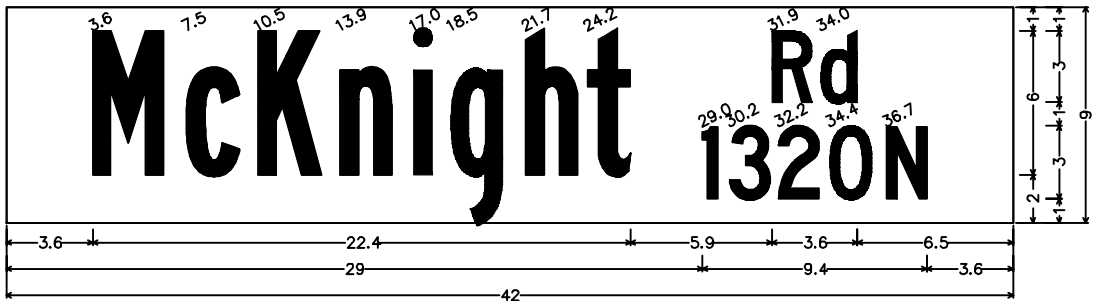
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SNS;
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"Larpenteur", B 2K; "Ave", C 2K; "2205E", C 2K;

40



SNS;
No border, White on Green;
"McKnight", B 2K; "Rd", C 2K; "1320N", C 2K;

REVISION 7 DESCRIPTION:

* The base design (faded background) is a copy of the corresponding sheet from The Heights Site Redevelopment, Revision 6, dated 09/23/2024, produced by WSB. The certification below by Civil Methods, Inc. applies only to the Revision 7 modifications shown on this sheet, done in response to comments from the City of St. Paul. Detailed descriptions of Revision 7 changes are included in a separately provided comment log.

Tree locations depicted in the base design are from Revision 6 and have since been updated. Refer to Landscape Plans by LHB for tree locations.

COMMENT #1'S ADDRESSED ON THIS SHEET (SEE COMMENT LOG): 6-159, 6-160, 6-161, 6-162, 6-163, 6-164, 6-165, 6-166

NO.	DESCRIPTION	DATE
7	Address Rev 6 Comments	7/31/2025

DESIGNED:

DRAWN: KEB

CHECKED: DMP

I HEREBY CERTIFY THAT THIS PLAN*, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Kent E. Brander

KENT E. BRANDER

DATE: 07-31-2025

LIC. #: 44578

CIVIL METHODS, INC.

P.O. Box 28038
St. Paul, MN 55128
PH: 763.210.5713 www.civilmethods.com

OWNER:

Saint Paul
Port Authority
400 Wabasha St N
Ste 240
St. Paul, MN 55102
Phone 612-224-5686

PROJECT:

INFRASTRUCTURE
PLANS FOR:
THE HEIGHTS
SAINT PAUL,
MINNESOTA

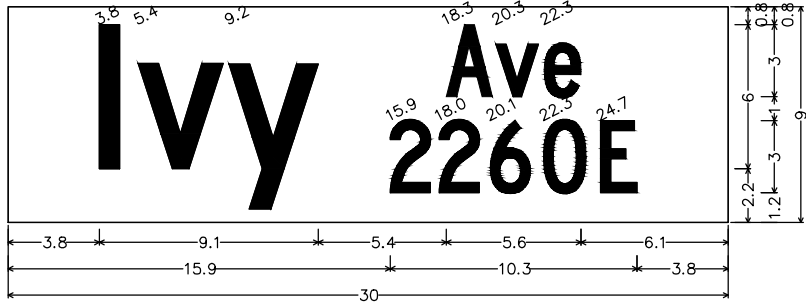
SIGNING AND STRIPING DETAILS

CURRENT REVISION SHEET NO.:

346-R

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41



SNS;
No border, White on Green;
"Ivy", C 2K; "Ave", C 2K; "2260E", C 2K;

42



SNS;
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43



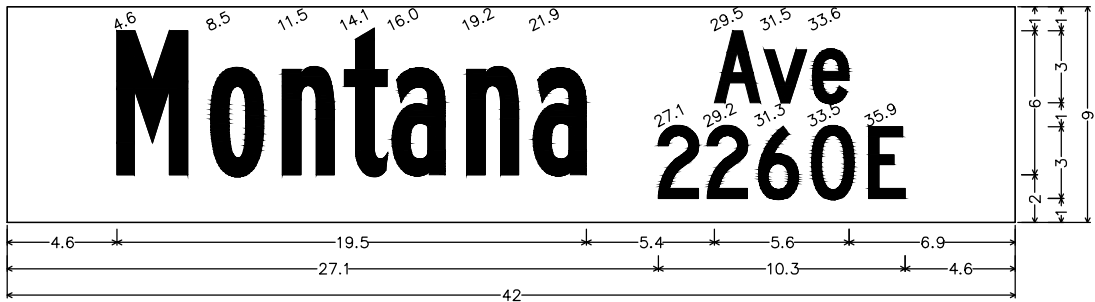
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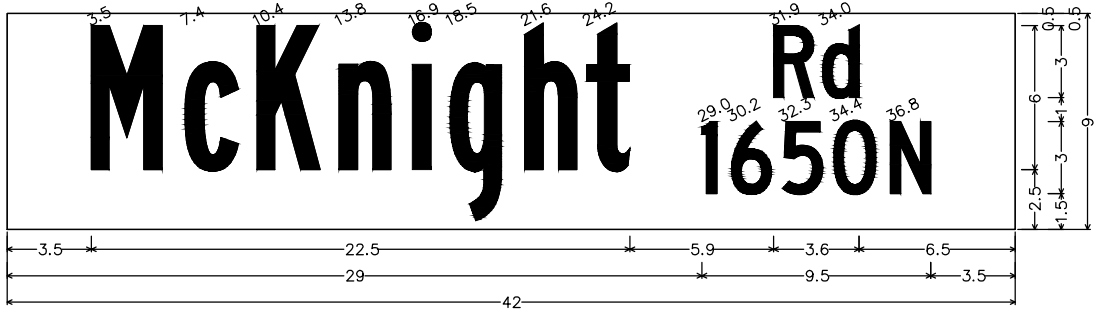
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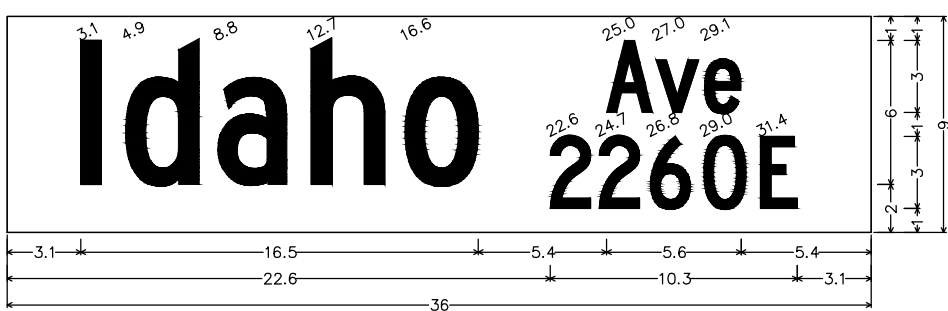
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46



SNS;
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47



SNS;
No border, White on Green;
"Idaho", C 2K; "Ave", C 2K; "2260E", C 2K;

I HEREBY CERTIFIED THAT THIS RECORD DRAWING HAS BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. THIS DRAWING HAS BEEN PREPARED IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, BOLTON & MENK, INC. CANNOT ASSURE ITS ACCURACY. THOSE RELYING ON THIS DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

Ashleigh K Rosa
ASHLEIGH K ROSA
LICENSE #: 59517

10-08-2025

DATE

CMI NOTE: SEE ALSO
SHEET 347-R, REV. 7
(CIVIL METHODS, INC.)

SCALE: AS SHOWN
DESIGN BY: PJM
PLAN BY: DEH
CHECK BY: PTH

REVISIONS

NO.	DATE	DESCRIPTION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Paul Hornby, P.E.
PAUL HORNBY, P.E.
DATE: 03/29/2024 LIC. NO.: 23359

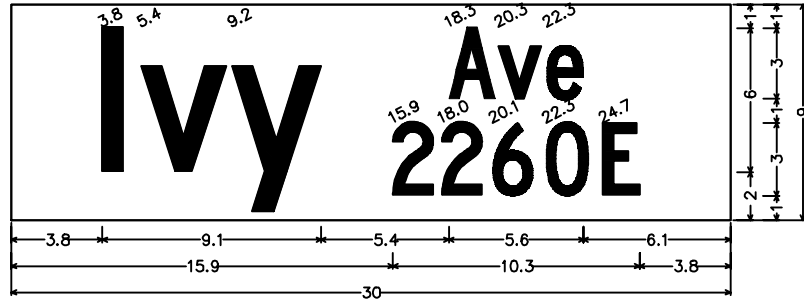
SIGNING AND
STRIPING
DETAILS

INFRASTRUCTURE PLANS FOR:
THE HEIGHTS
SAINT PAUL, MINNESOTA

Saint Paul
Port Authority
400 Wabasha Street North
Suite 240
St Paul, Minnesota 55102
Phone 612-224-5686

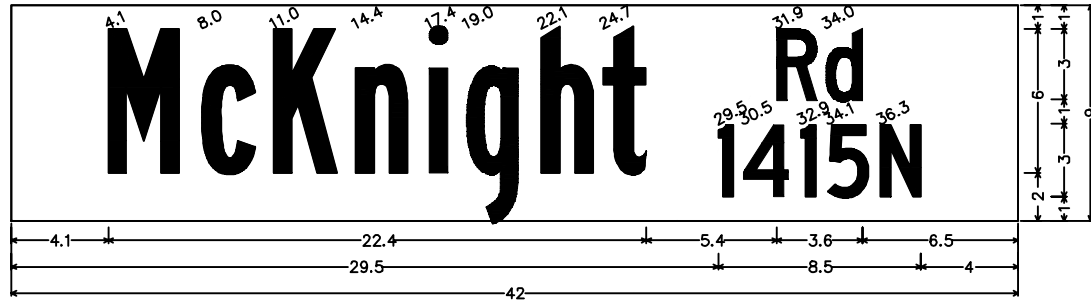
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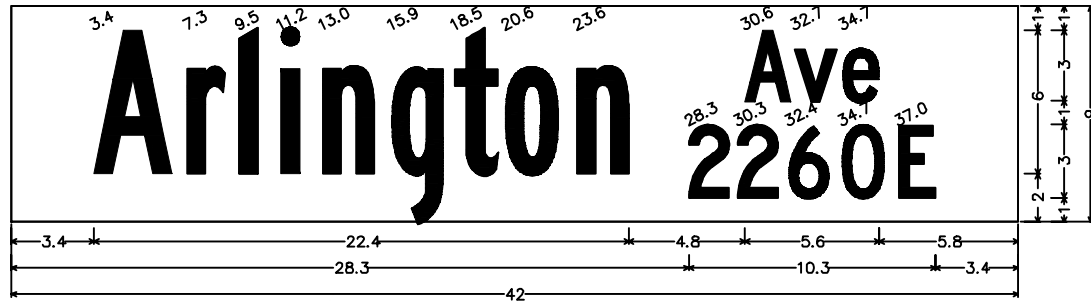
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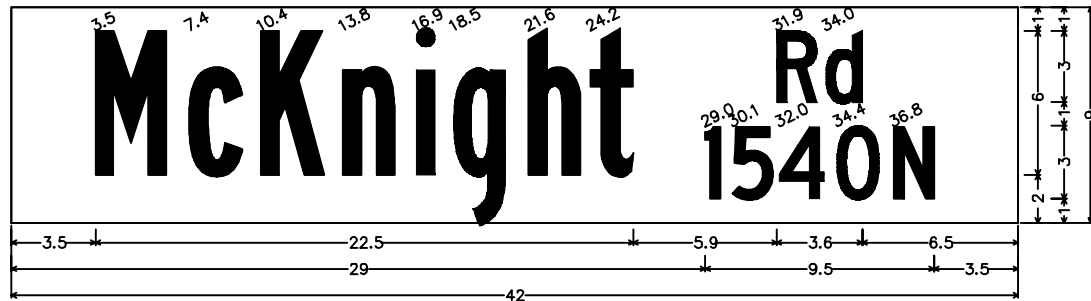
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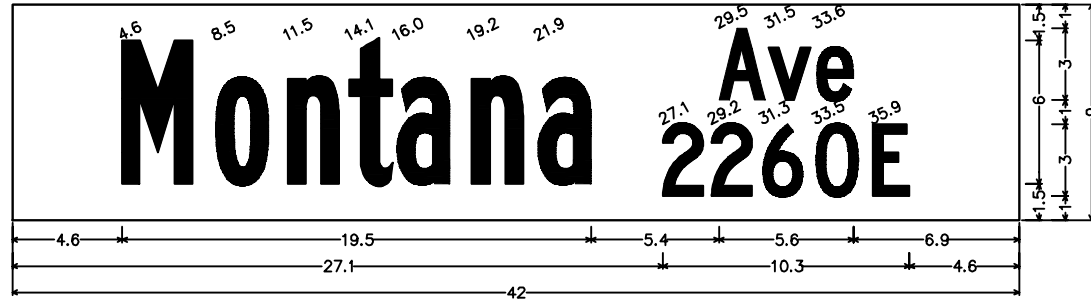
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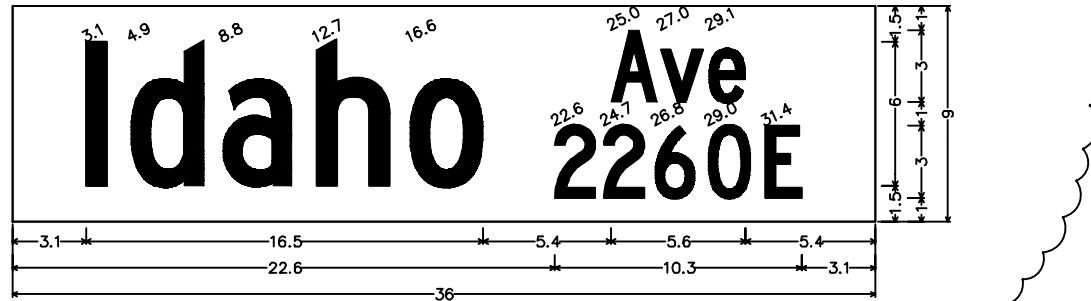
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SNS;
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47



SNS;
No border, White on Green;
"Idaho", C 2K; "Ave", C 2K; "2260E", C 2K;

I HEREBY CERTIFIED THAT THIS RECORD DRAWING HAS BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. THIS DRAWING HAS BEEN PREPARED IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, BOLTON & MENK, INC. CANNOT ASSURE ITS ACCURACY. THOSE RELYING ON THIS DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

Ashleigh K Rosa
ASHLEIGH K ROSA
LICENSE #: 59517

10-08-2025

DATE

REVISION 7 DESCRIPTION:

* The base design (faded background) is a copy of the corresponding sheet from The Heights Site Redevelopment, Revision 6, dated 09/23/2024, produced by WSB. The certification below by Civil Methods, Inc. applies only to the Revision 7 modifications shown on this sheet, done in response to comments from the City of St. Paul. Detailed descriptions of Revision 7 changes are included in a separately provided comment log.

Tree locations depicted in the base design are from Revision 6 and have since been updated. Refer to Landscape Plans by LHB for tree locations.

COMMENT #15 ADDRESSED ON THIS SHEET (SEE COMMENT LOG): 6-157, 6-168, 6-169, 6-170, 6-171, 6-172, 6-173

NO.	DESCRIPTION	DATE
7	Address Rev 6 Comments	7/31/2025

DESIGNED:

DRAWN: KEB

CHECKED: DMP

I HEREBY CERTIFY THAT THIS PLAN*, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Kent E. Brander
KENT E. BRANDER

DATE: 07-31-2025

LIC. #: 44578

CIVIL METHODS, INC.
P.O. Box 28038
St. Paul, MN 55128
PH: 763.210.5713 www.civilmethods.com

OWNER:
Saint Paul
Port Authority
400 Wabasha St N
Ste 240
St. Paul, MN 55102
Phone 612-224-5686

PROJECT:
INFRASTRUCTURE
PLANS FOR:
THE HEIGHTS
SAINT PAUL,
MINNESOTA

**SIGNING AND
STRIPING
DETAILS**

CURRENT REVISION SHEET NO.:
347-R

Ashleigh Rosa

From: HunWen Westman <HunWen.Westman@ci.stpaul.mn.us>
Sent: Tuesday, September 23, 2025 6:02 PM
To: Ashleigh Rosa
Cc: Kristine Williams; David Kuebler; Ryan Lowry
Subject: RE: SPPA - The Heights - Street Sign Submittal

***** WARNING: This email is from outside the company. Proceed with Caution*****

We don't need to join you for the punchlist inspection, but we would like the opportunity to swing through after you all think it's ready, before we accept the facility. Don't hesitate to reach out if you're not clear on whether something is acceptable/correct.

Our expectation is that you'll be doing a thorough review (against plans and using general engineering judgement) so if we go through later, it'll just be a cursory look, an additional set of eyes.

Thanks,

HunWen Westman, P.E.
P: 651.266.6174 | F: 651.298.4559

From: Ashleigh Rosa <Ashleigh.Rosa@bolton-menk.com>
Sent: Tuesday, September 23, 2025 1:30 PM
To: HunWen Westman <HunWen.Westman@ci.stpaul.mn.us>
Cc: Kristine Williams <kmw@sppa.com>; David Kuebler <david.kuebler@ci.stpaul.mn.us>; Ryan Lowry <ryan.lowry@ci.stpaul.mn.us>
Subject: RE: SPPA - The Heights - Street Sign Submittal

Think Before You Click: This email originated outside our organization.

Great! Thank you for your review.

We have our contractor set up to install the signs October 2nd. We will review against the plans and create a punchlist for any items needed – would you want anyone from traffic with us to review the installation for the punchlist? Thank you!



Ashleigh Rosa, PE (MN)
Transportation Construction Manager | Associate
Bolton & Menk, Inc.

📞 (763) 516-1558

From: HunWen Westman <HunWen.Westman@ci.stpaul.mn.us>
Sent: Tuesday, September 23, 2025 12:58 PM

To: Ashleigh Rosa <Ashleigh.Rosa@bolton-menk.com>
Cc: Kristine Williams <kmw@sppa.com>; David Kuebler <david.kuebler@ci.stpaul.mn.us>; Ryan Lowry <ryan.lowry@ci.stpaul.mn.us>
Subject: RE: SPPA - The Heights - Street Sign Submittal

***** WARNING: This email is from outside the company. Proceed with Caution*****

Hi, Ashleigh –

Thanks for reviewing. Since you've checked all the numbers/text, I did just a quick scan and added a comment about the spacing on the two Iowa Ave panels. Not a big deal, and it looks like they designed per plan, but I think the horizontal spacing could be a little better.

Thanks!

HunWen Westman, P.E.
P: 651.266.6174 | F: 651.298.4559

From: Ashleigh Rosa <Ashleigh.Rosa@bolton-menk.com>
Sent: Monday, September 22, 2025 5:20 PM
To: HunWen Westman <HunWen.Westman@ci.stpaul.mn.us>
Cc: Kristine Williams <kmw@sppa.com>; David Kuebler <david.kuebler@ci.stpaul.mn.us>; Ryan Lowry <ryan.lowry@ci.stpaul.mn.us>
Subject: SPPA - The Heights - Street Sign Submittal

Think Before You Click: This email originated outside our organization.

Hi HunWen,

We have received the attached submittal from our contractor for the street signs on the SPPA Heights project. I've reviewed them for conformance to the plans and with only the exceptions that I've noted on page 2 for the Winthrop signs. Please let me know if you have any other comments on these signs. I've also reviewed these against any comments from the Revision 07 submittal (attached) and do not see any outstanding items on the street signs. Thank you,



Real People. Real Solutions.



Ashleigh Rosa, PE (MN)
Transportation Construction Manager | Associate
Bolton & Menk, Inc.

📍 111 Washington Ave S Suite 650, Minneapolis, Minnesota, 55401

📞 (952) 299-0431

📠 (763) 516-1558

✉ ashleigh.rosa@bolton-menk.com

🌐 www.Bolton-Menk.com



From: Andy Sprado <andy@decmn.com>
Sent: Monday, September 22, 2025 10:52 AM
To: Ashleigh Rosa <Ashleigh.Rosa@bolton-menk.com>
Subject: Heights - Street Sign Submittal

***** WARNING: This email is from outside the company. Proceed with Caution*****

Good morning,

Attached are the street sign submittals for this project.

Thank you,



Andy Sprado

Sr. Project Manager

Cell: 651-331-8901

Office: 763-434-4131

andy@decmn.com

www.DECMN.com

1282 187th Ln NE | East Bethel, MN 55011



CITY OF ST PAUL
Department of Public Works
25 West 4th Street
1500 City Hall Annex
Saint Paul, MN 55102

ORDINANCE PERMIT

OFFICE USE ONLY

Application No. _____
Application Date _____
SPR File # _____
Permit No. _____

Type of Permit:

- | | | |
|--|---|--|
| ☐ 01 Roadway | ☐ 04 Storm Sewer Collection | ☐ 07 Sanitary Sewer Special |
| ☐ 02 Sidewalk | ☐ 05 Storm Sewer Treatment | ☐ 08 Retaining Wall |
| ☐ 03 Traffic Appurtenances Including Signals,
Lighting, EV Infrastructure, Signing, Striping | ☐ 06 Sanitary Sewer Collection | ☐ 09 Bridge |

Phase:

Location (Street On, From/To, and Adjacent Lots/Blocks):

Description of Work: [Include the description provided in the permit application and all subsequent amendments or revisions, which are hereby incorporated by reference.]

Applicant Contact Person:

Contact Person Title:

Contact Person Telephone:

Contact Person Email:

Bond Co.:

Bond Amount:

Bond No.:

Insurance Co.:

Insurance Certificate No.:

Permit Conditions:

This permit is issued with the stipulation that the work of the permittee and related agents, employees and contractors shall conform in all respects to the City of Saint Paul Department of Public Works Ordinance Permit Process Document and the Department of Public Works List of Applicable Standards & Specifications. The permit shall be available for display at the site referred to herein and shown to any Police Officer or Inspector upon demand and does not authorize or allow for interference with the work of any Contract made or to be made with the City of Saint Paul.

**THIS PERMIT MAY BE REVOKED AT ANY TIME
BY THE DIRECTOR OF PUBLIC WORKS**

A PERMIT FOR THE ABOVE DESCRIBED CONSTRUCTION IS AUTHORIZED BY:

David Kuebler

Signature

Title

Date

Printed Name

PERMIT NUMBER _____

ITEMS TO BE COMPLETED PRIOR TO ACCEPTANCE OF INFRASTRUCTURE AND RELEASE OF PERMIT

Prior to acceptance of any infrastructure and release of City permits, the following items must be completed to the satisfaction of the City:

- ☒ Corrective (punch list) work completed;
- ☒ Original reproducible CAD and PDF as-built plans, signed by the Engineer of Record, provided to Public Works; Submittal of final copies of Metropolitan Council Environmental Services and MN Pollution Control Agency Permits (Sewer Extension, SAC Determination, etc.);
- ☒ Full compliance with project Quality Management Plan or other document(s) governing quality management and quality assurance;
- NA ☐ Documentation of compliance with all applicable City and non-City requirements including, but not limited to: City Public Works Right-of-Way office, Minnesota Pollution Control Agency, Capitol Region Watershed District, Ramsey-Washington Metro Watershed District.
- NA ☐ Documentation of roadway material test results at compaction of subgrade, grading and base, plant mix design report, insitu strength;
- NA ☐ Video provided to the City of all sanitary sewer mains and laterals, storm sewer mains and laterals, and any structural BMP's (pipe galleries, draintile, sediment control structures, weir structures, etc.) installed under any permit;
- NA ☐ Sewer Permit drawings provided to the City for paving connections or stubs installed for the purposes of providing service to private development(s). Sewer Permit drawings are in addition to Private Service Lateral Permit Drawings;
- NA ☐ Documentation that Public Works was notified for signal and lighting inspection of pole field layouts (staking), installed conduits and foundations, installed poles and wiring, signal head positioning, and signal phasing/detection verification;
- NA ☐ For infrastructure within parks: Documentation that the Parks Department has been notified of completion status;
- NA ☐ All applicable operation and maintenance manuals provided to Public Works; and
- ☒ Certificate of Compliance signed by Engineer of Record and provided to the City.

RELEASE OF PERMIT:

Permit No. _____ Council Res. No. _____ Permit Date _____

Release Authorized by _____ Title _____

SCALE: AS SHOWN
DESIGN BY: PJM
PLAN BY: DEH
CHECK BY: PTH

NO.	DATE	DESCRIPTION	ADDENDUM NO. 1	PLAN REVISIONS	REVISION 4	100% PLAN COMMENTS
1	01/30/2024					
3	03/15/2024					
4	06/19/2024					
6	09/23/2024					

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PAUL HORNBY, P.E.
DATE: 03/29/2024 LIC. NO. 23359

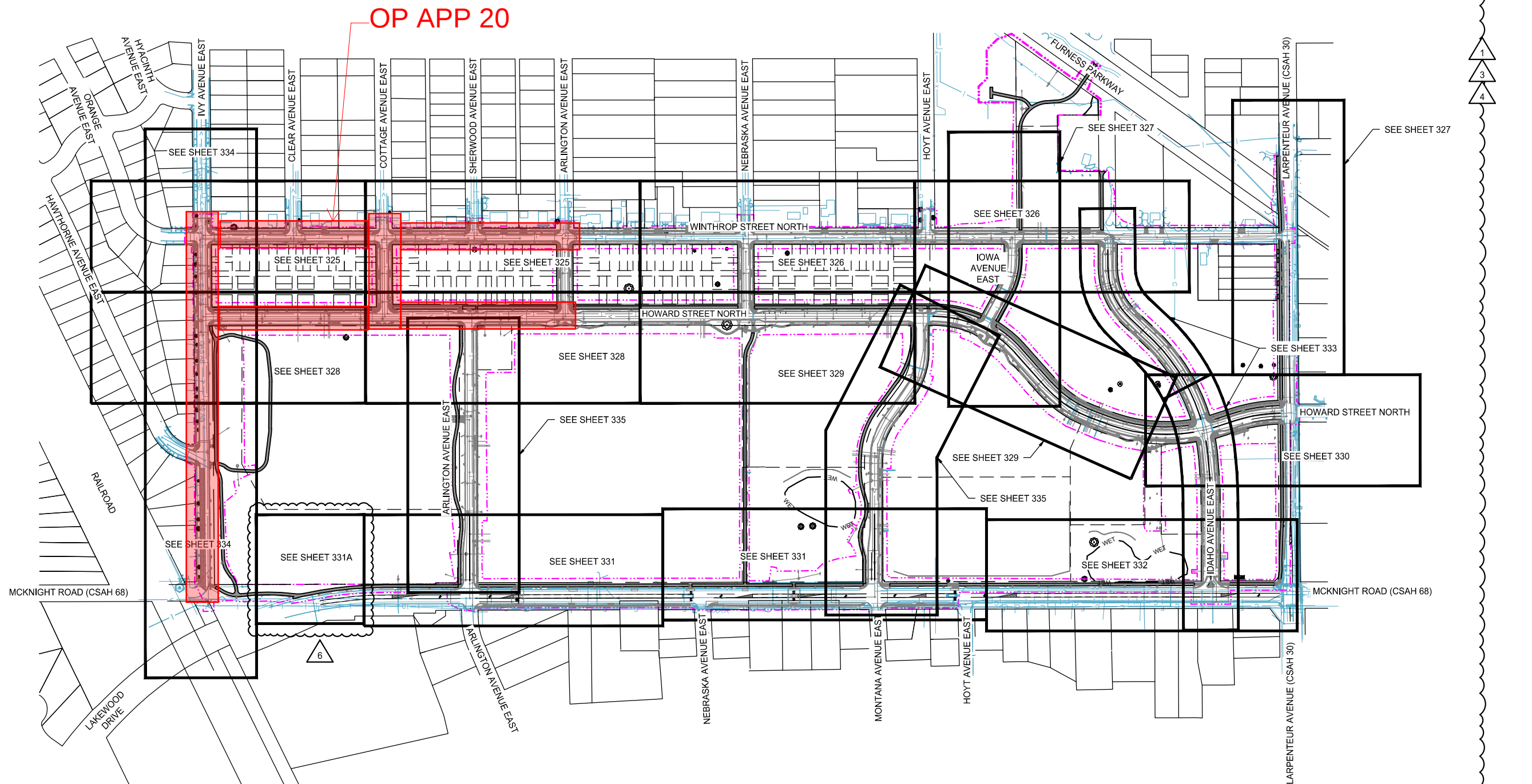
OVERALL SIGNING AND STRIPING PLAN

INFRASTRUCTURE PLANS FOR:
THE HEIGHTS
SAINT PAUL, MINNESOTA

Saint Paul
Port Authority
400 Wabasha Street North
Suite 240
St Paul, Minnesota 55102
Phone 612-224-5686

WSB PROJECT NO.
013987-000

324 OF 451



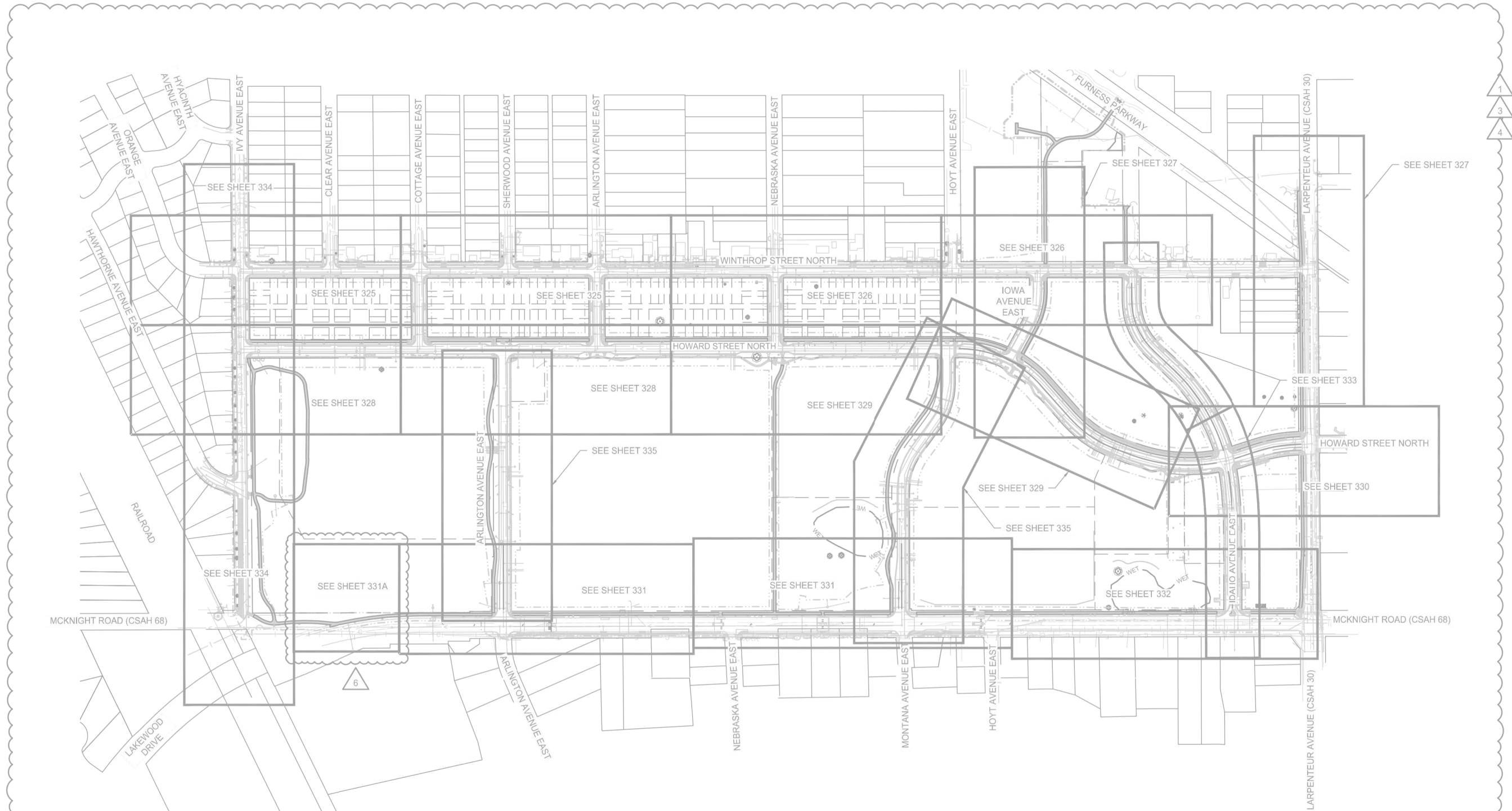
NOTES:

1. LARPEUR AVENUE (CSAH 30) AND MCKNIGHT ROAD (CSAH 68) USE RAMSEY COUNTY DETAILS.
2. REMAINING ROADWAYS USE CITY OF ST. PAUL DETAILS.
3. SEE REMOVALS PLAN FOR SIGNS TO BE SALVAGED AND REINSTALLED.
4. SEE SHEET 342 FOR STREET NAME SIGNS.
5. ALL CITY STREET NAME SIGNS ARE TWO SIDED (SINGLE PLATE).
6. BRACKETS FOR STREET SIGN PANELS SHALL BE (UNPAINTED) HIGH STRENGTH ALUMINUM WITH 5.5" SLOT WIDTH FOR EXTRUDED BLADES. BRACKET STRENGTH SHALL SUPPORT BLADES OF AT LEAST 48" IN LENGTH.
7. NIGHT PLOW ROUTE AND NO PARKING SIGNS THAT APPLY TO AN ENTIRE BLOCK CAN BE PLACED ON LIGHT POLES WHERE FEASIBLE.
8. MCKNIGHT RD. PEDESTRIAN MEDIAN (YELLOW) IN ALL CORNERS (DETAIL SHEET 23).

SIGN LEGEND

R1-1	R3-7M	R8-3	W 16-5 PL	OM3-C	STP-NPR
R1-3P	R3-9cP	W11-2	W 16-5 PR	AR-206	
R3-2	R3-9 dP	W14-1	W16-7P	X3-5	STP-NPR1S
R3-7	R4-7		OM1-2		
			OM4-2		

CMI NOTE: SEE ALSO
SHEET 324-R, REV. 7
(CIVIL METHODS, INC.)



- NOTES:
1. LARPELLEUR AVENUE (CSAH 30) AND MCKNIGHT ROAD (CSAH 68) USE RAMSEY COUNTY DETAILS.
 2. REMAINING ROADWAYS USE CITY OF ST. PAUL DETAILS.
 3. SEE REMOVALS PLAN FOR SIGNS TO BE SALVAGED AND REINSTALLED.
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 8. SEE DETAIL SHEET 23 FOR PEDESTRIAN MEDIANS ALONG MCKNIGHT RD.

SIGN LEGEND

R1-1	R3-7M	R8-3	W 16-5 PL	OM3-C	STP-NPR
R1-3P	R3-9cP	W11-2	W 16-5 PR	AR-206	
R3-2	R3-9 dP	W14-1	W16-7P	X3-5	STP-NPR1S
R3-7	R4-7		OM1-2		
			OM4-2		

REVISION 7 DESCRIPTION:

* The base design (faded background) is a copy of the corresponding sheet from The Heights Site Redevelopment, Revision 6, dated 09/23/2024, produced by WSB. The certification below by Civil Methods, Inc. applies only to the Revision 7 modifications shown on this sheet, done in response to comments from the City of St. Paul. Detailed descriptions of Revision 7 changes are included in a separately provided comment log.

Tree locations depicted in the base design are from Revision 6 and have since been updated. Refer to Landscape Plans by LHB for tree locations.

COMMENT #15 ADDRESSED ON THIS SHEET (SEE COMMENT LOG): 6-118, 6-129

NO.	DESCRIPTION	DATE
7	Address Rev 6 Comments	7/31/2025

DESIGNED: _____
DRAWN: KEB
CHECKED: DMP

I HEREBY CERTIFY THAT THIS PLAN*, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

KENT E. BRANDER
DATE: 07-31-2025
LIC. #: 44578

CIVIL METHODS, INC.
P.O. Box 28038
St. Paul, MN 55128
PH: 763.210.5713 www.civilmethods.com

OWNER: Saint Paul
Port Authority
400 Wabasha St N
Ste 240
St. Paul, MN 55102
Phone 612-224-5686

PROJECT: INFRASTRUCTURE
PLANS FOR:
THE HEIGHTS
SAINT PAUL,
MINNESOTA

**OVERALL
SIGNING AND
STRIPING PLAN**

CURRENT REVISION SHEET NO.:
324-R

K:\013987-000\Cad\Plan\SUBMITTAL\013987-000-C-SIGN-PLAN.dwg 10/16/2024 5:03:30 PM

LEGEND

— SIGN LOCATION
— CROSSWALK - MULTI-COMP
— GR IN (WR)

NOTES

1. SIGN LOCATIONS TO BE FIELD VERIFIED.
2. CONTRACTOR TO FURNISH & INSTALL ALL SIGNS

STRIPING PAINT

1ST DIGIT WIDTH 4", 8", ETC.	2ND DIGIT PATTERN S - SOLID B - BROKEN T - DOTTED D - DOUBLE K - DOUBLE BROKEN H - DOUBLE DOTTED	3RD DIGIT COLOR W - WHITE Y - YELLOW B - BLACK
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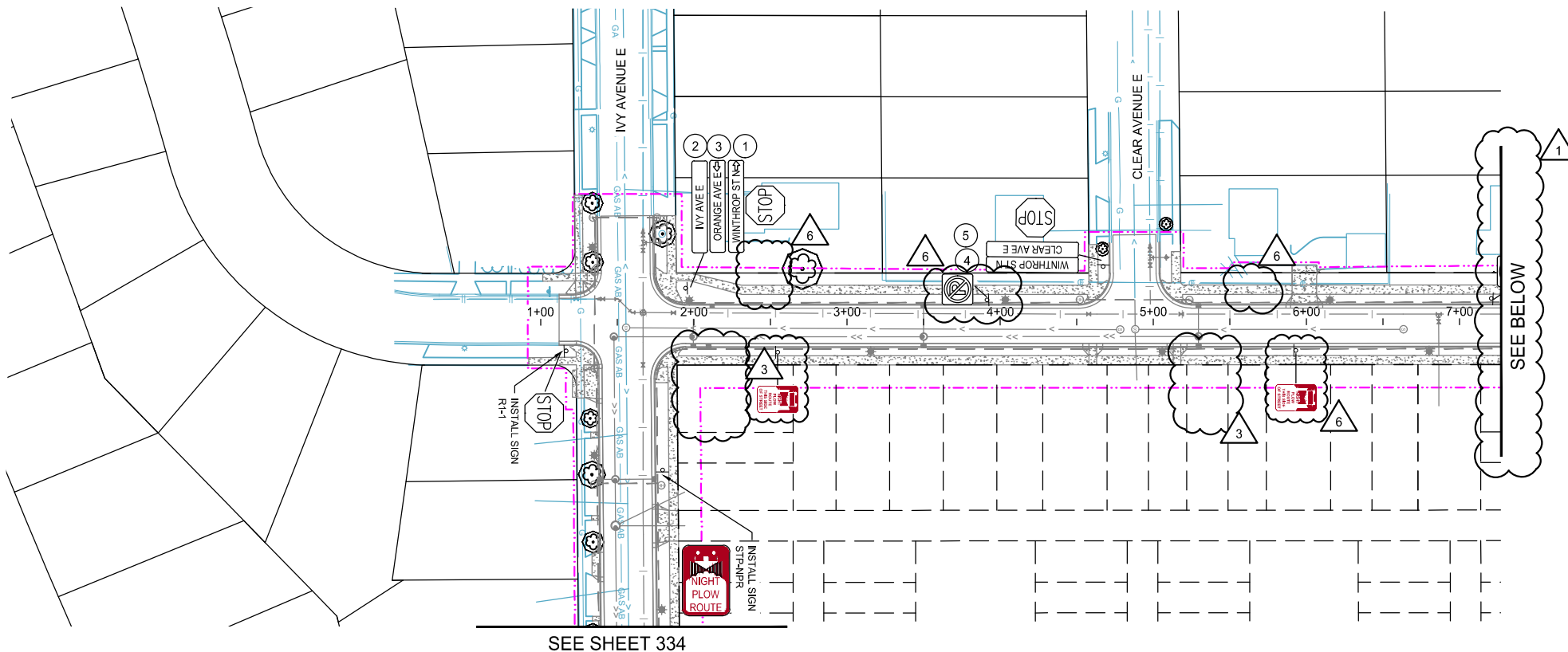
XXXX X
PERF-THERMO

XXX
MULTI COMP
GROUND-IN, WET REFLECTIVE

PAVEMENT MARKING
PREFORMED THERMO
PLASTIC (GROUND IN)

CONSTRUCTION LIMITS

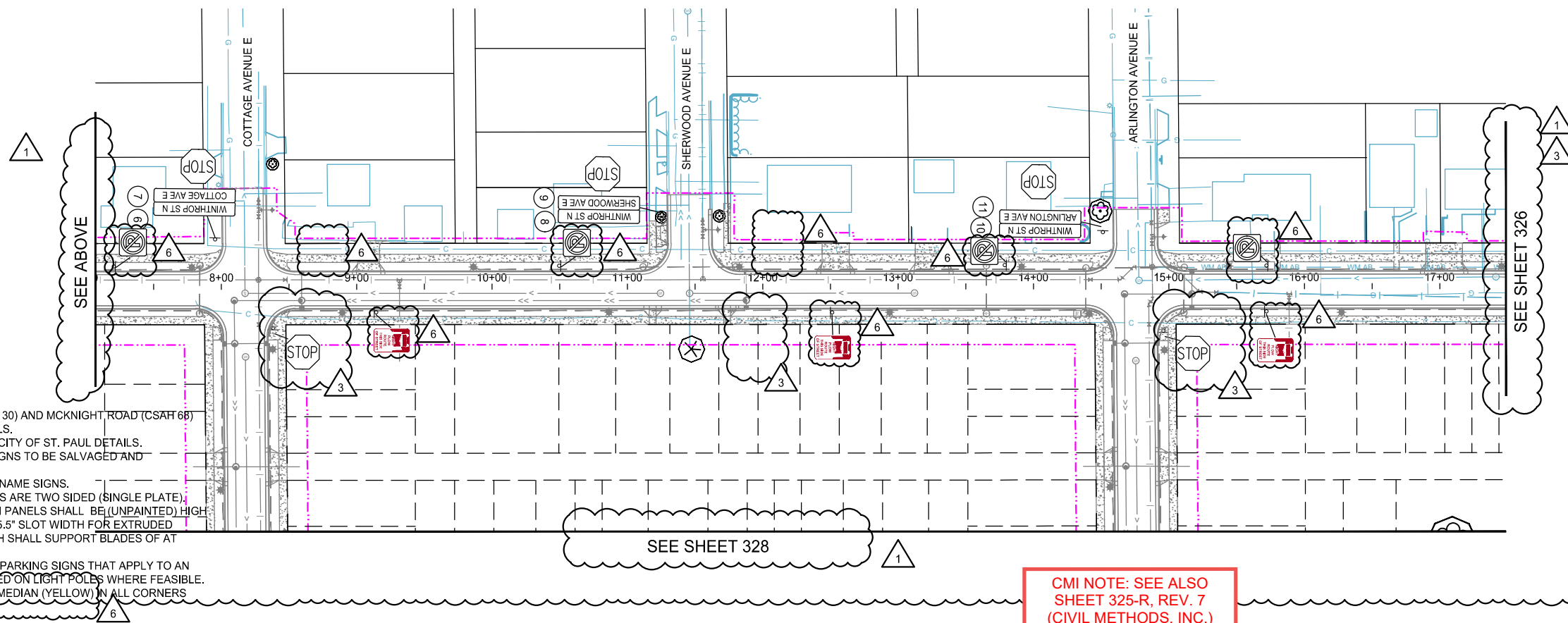
WINTHROP STREET N



SEE SHEET 334

SEE BELOW

WINTHROP STREET N



SEE SHEET 328

SEE SHEET 326

NOTES:

1. LARPENITEUR AVENUE (CSAH 30) AND MCKNIGHT ROAD (CSAH 68) USE RAMSEY COUNTY DETAILS.
2. REMAINING ROADWAYS USE CITY OF ST. PAUL DETAILS.
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7. NIGHT PLOW ROUTE AND NO PARKING SIGNS THAT APPLY TO AN ENTIRE BLOCK CAN BE PLACED ON LIGHT POLES WHERE FEASIBLE.
8. MCKNIGHT RD. PEDESTRIAN MEDIAN (YELLOW) IN ALL CORNERS (DETAIL SHEET 23).

CMI NOTE: SEE ALSO
SHEET 325-R, REV. 7
(CIVIL METHODS, INC.)

SCALE: AS SHOWN
DESIGN BY: PJM
PLAN BY: DEH
CHECK BY: PTH

REVISIONS

NO.	DATE	DESCRIPTION
1	01/30/2024	ADDENDUM NO. 1
3	03/29/2024	PLAN REVISIONS
4	06/19/2024	REVISION 4
6	09/23/2024	100% PLAN COMMENTS

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PAUL HORNBY, P.E.
DATE: 03/29/2024 LIC. NO. 23359

SIGNING AND STRIPING PLAN

INFRASTRUCTURE PLANS FOR:
THE HEIGHTS
SAINT PAUL, MINNESOTA

Saint Paul
Port Authority
400 Wabasha Street North
Suite 240
St Paul, Minnesota 55102
Phone 612-224-5686

WSB PROJECT NO.
013987-000

LEGEND

- SIGN LOCATION
CROSSWALK - MULTI-COMP
GR IN (WR)

NOTES

- SIGN LOCATIONS TO BE FIELD VERIFIED.
- CONTRACTOR TO FURNISH & INSTALL ALL SIGNS

STRIPING PAINT

1ST DIGIT WIDTH 4", 8", ETC.	2ND DIGIT PATTERN	3RD DIGIT COLOR
S - SOLID	W - WHITE	
B - BROKEN	Y - YELLOW	
T - DOTTED	B - BLACK	
D - DOUBLE		
K - DOUBLE BROKEN		
H - DOUBLE DOTTED		



PERF-THERMO



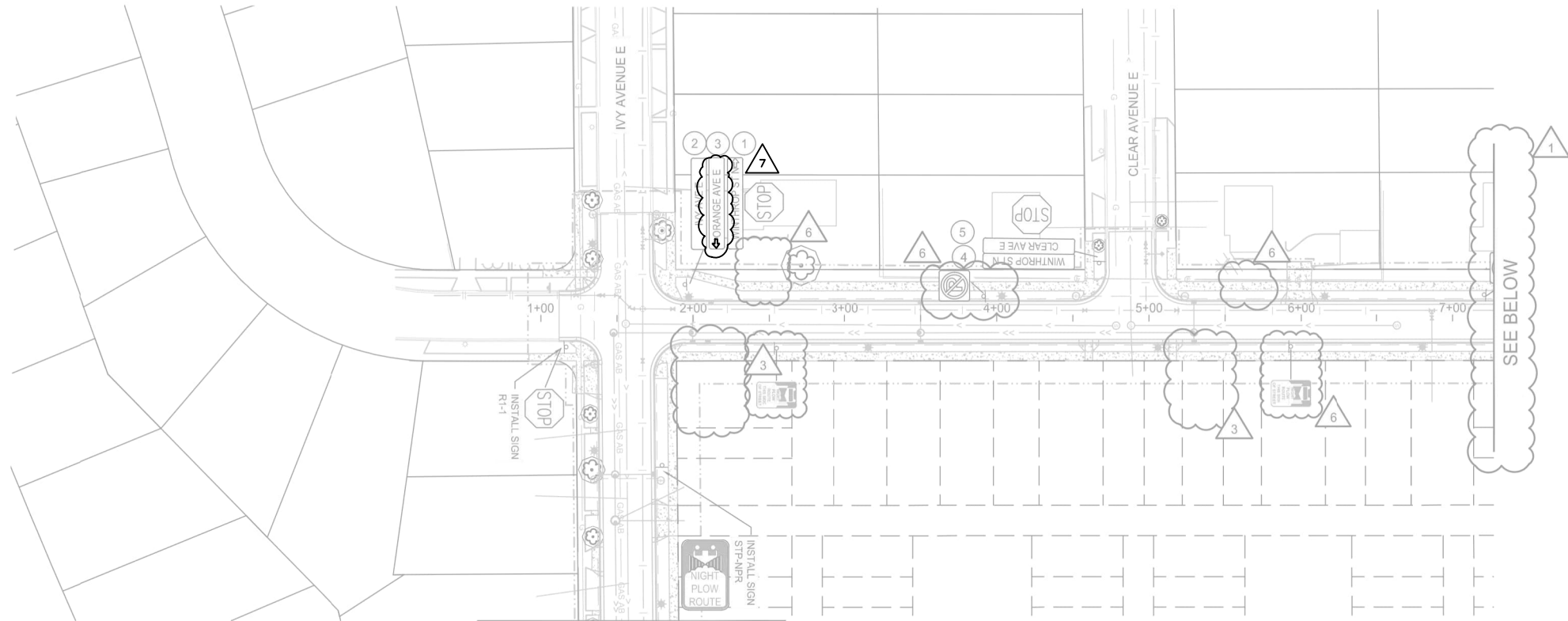
MULTI COMP
GROUND-IN, WET REFLECTIVE



PAVEMENT MARKING
PREFORMED THERMO
PLASTIC (GROUND IN)

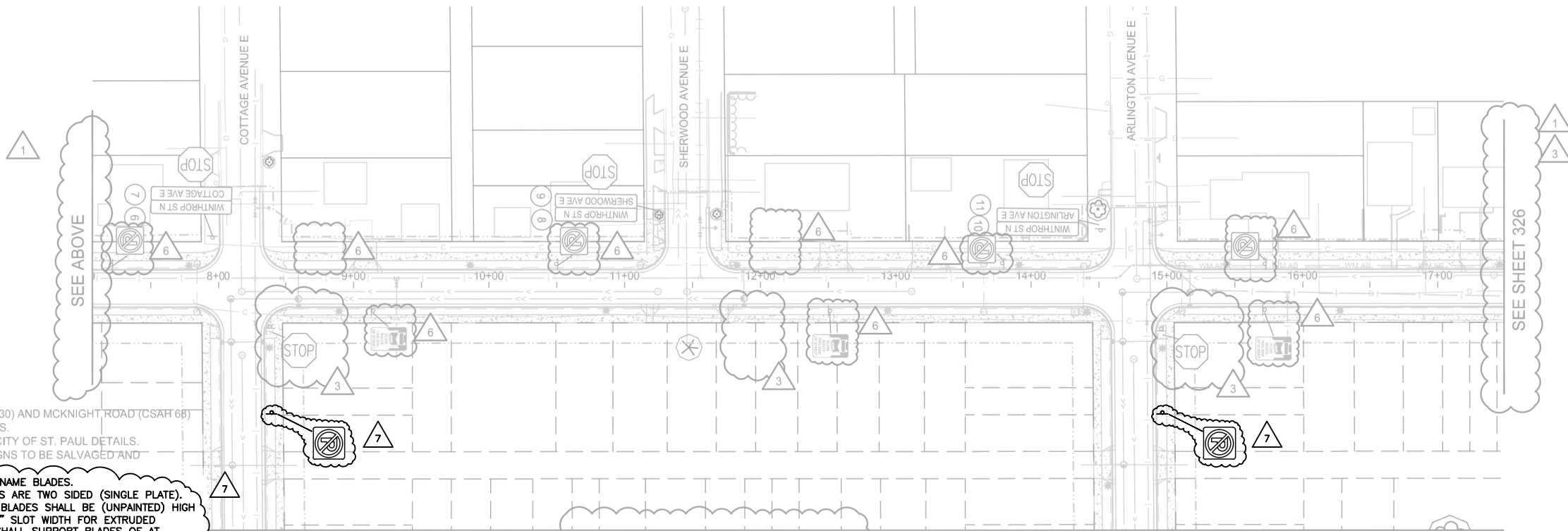
CONSTRUCTION LIMITS

WINTHROP STREET N



0 50 100
H SCALE IN FEET

WINTHROP STREET N



0 50 100
H SCALE IN FEET

SEE SHEET 328

NOTES:

- LARPENTEUR AVENUE (CSAH 30) AND MCKNIGHT ROAD (CSAH 68) USE RAMSEY COUNTY DETAILS.
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- SEE DETAIL SHEET 23 FOR PEDESTRIAN MEDIANS ALONG MCKNIGHT RD.

REVISION 7 DESCRIPTION:

* The base design (faded background) is a copy of the corresponding sheet from The Heights Site Redevelopment, Revision 6, dated 09/23/2024, produced by WSB. The certification below by Civil Methods, Inc. applies only to the Revision 7 modifications shown on this sheet, done in response to comments from the City of St. Paul. Detailed descriptions of Revision 7 changes are included in a separately provided comment log.

Tree locations depicted in the base design are from Revision 6 and have since been updated. Refer to Landscape Plans by LHB for tree locations.

COMMENT #'S ADDRESSED ON THIS SHEET
(SEE COMMENT LOG): 6-118, 6-129, 6-120, 6-210, 6-211

NO.	DESCRIPTION	DATE
7	Address Rev 6 Comments	7/31/2025

DESIGNED:

KEB

DMP

I HEREBY CERTIFY THAT THIS PLAN*, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Kent E. Brander
KENT E. BRANDER

DATE: 07-31-2025

LIC. #: 44578

CIVIL METHODS, INC.

P.O. Box 28038
St. Paul, MN 55128
PH: 763.210.5713 www.civilmethods.com

OWNER:

Saint Paul
Port Authority
400 Wabasha St N
Ste 240
St. Paul, MN 55102
Phone 612-224-5686

PROJECT:

INFRASTRUCTURE
PLANS FOR:
THE HEIGHTS
SAINT PAUL,
MINNESOTA

SIGNING AND STRIPING PLAN

CURRENT REVISION SHEET NO.:

325-R

K:\013987-000\Cad\Plan\SUBMITTAL\013987-000-C-5\SIGN-PLAN.dwg 10/16/2024 5:04:15 PM

LEGEND

— SIGN LOCATION
— CROSSWALK - MULTI-COMP
— GR IN (WR)

NOTES

1. SIGN LOCATIONS TO BE FIELD VERIFIED.
2. CONTRACTOR TO FURNISH & INSTALL ALL SIGNS

STRIPING PAINT

1ST DIGIT WIDTH	2ND DIGIT PATTERN	3RD DIGIT COLOR
4", 8", ETC.	S - SOLID	W - WHITE
	B - BROKEN	Y - YELLOW
	T - DOTTED	B - BLACK
	D - DOUBLE	
	K - DOUBLE BROKEN	
	H - DOUBLE DOTTED	

XXXX
X

PERF-THERMO

XXX

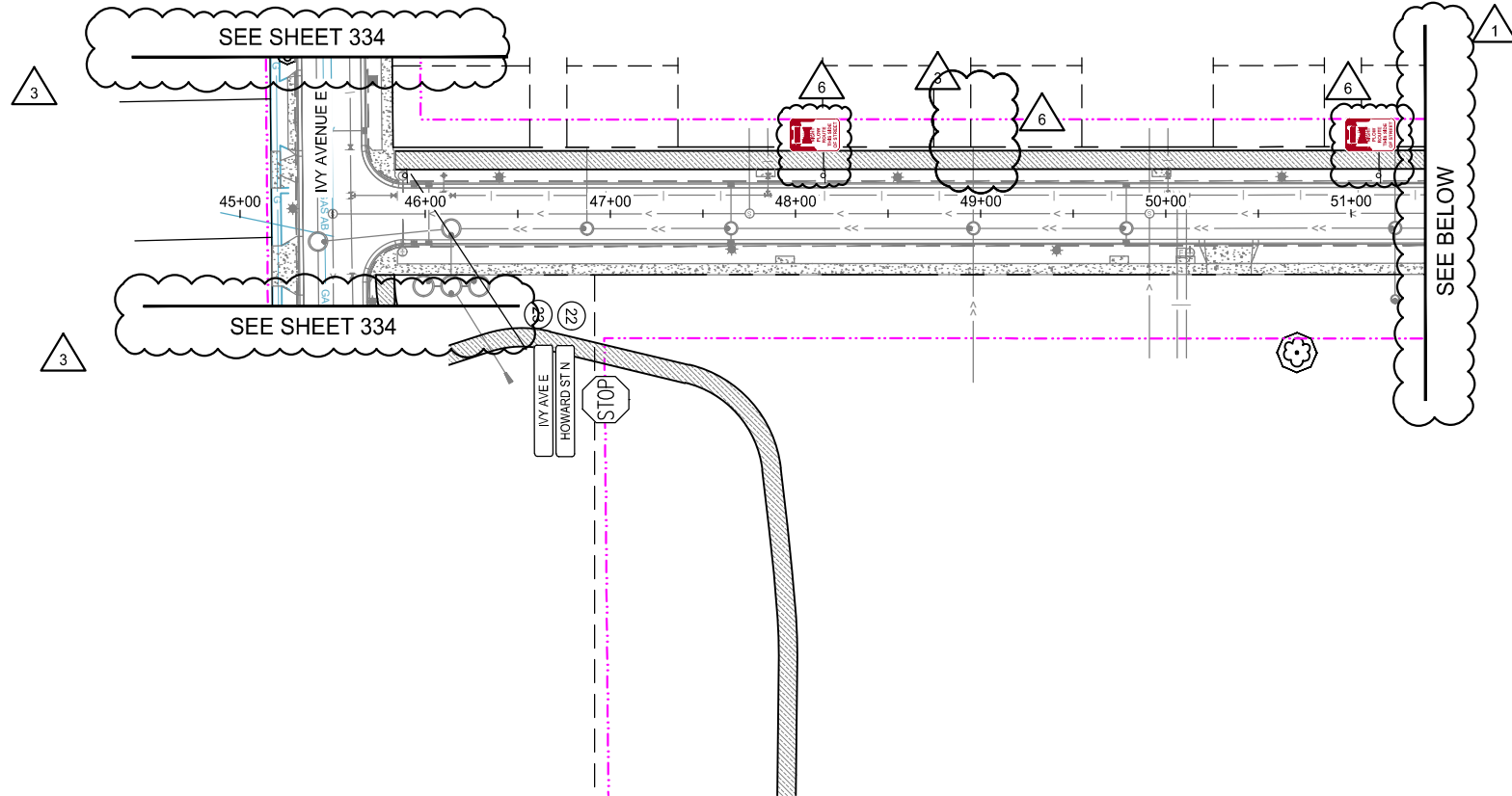
MULTI COMP
GROUND-IN, WET REFLECTIVE



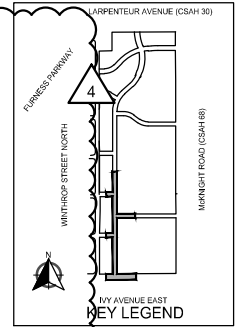
PAVEMENT MARKING
PREFORMED THERMO
PLASTIC (GROUND IN)

CONSTRUCTION LIMITS

HOWARD STREET N



0 50 100
H: SCALE IN FEET



wsb

SCALE: AS SHOWN
DESIGN BY: PJM
PLAN BY: DEH
CHECK BY: PTH

REVISIONS

NO.	DATE	DESCRIPTION
1	01/30/2024	ADDENDUM NO. 1
3	03/29/2024	PLAN REVISIONS
4	06/19/2024	REVISION 4
6	09/23/2024	100% PLAN COMMENTS

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PAUL HORNBY, P.E.
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THE HEIGHTS
SAINT PAUL, MINNESOTA

Saint Paul
Port Authority
400 Wabasha Street North
Suite 240
St Paul, Minnesota 55102
Phone 612-224-5686

WSB PROJECT NO.
013987-000

NOTES:

1. LARPEN TEUR AVENUE (CSAH 30) AND MCKNIGHT ROAD (CSAH 68) USE RAMSEY COUNTY DETAILS.
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8. MCKNIGHT RD. PEDESTRIAN MEDIAN (YELLOW) IN ALL CORNERS (DETAIL SHEET 23).

Note: Arrow will point down per
Rev 7 Comment from HunWen

CMI NOTE: SEE ALSO
SHEET 328-R, REV. 7
(CIVIL METHODS, INC.)

LEGEND

- SIGN LOCATION
CROSSWALK - MULTI-COMP
GR IN (WR)

NOTES

- SIGN LOCATIONS TO BE FIELD VERIFIED.
- CONTRACTOR TO FURNISH & INSTALL ALL SIGNS

STRIPING PAINT

1ST DIGIT WIDTH	2ND DIGIT PATTERN	3RD DIGIT COLOR
4", 8", ETC.	S - SOLID B - BROKEN T - DOTTED D - DOUBLE K - DOUBLE BROKEN H - DOUBLE DOTTED	W - WHITE Y - YELLOW B - BLACK

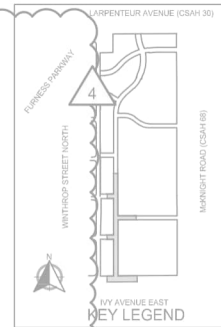
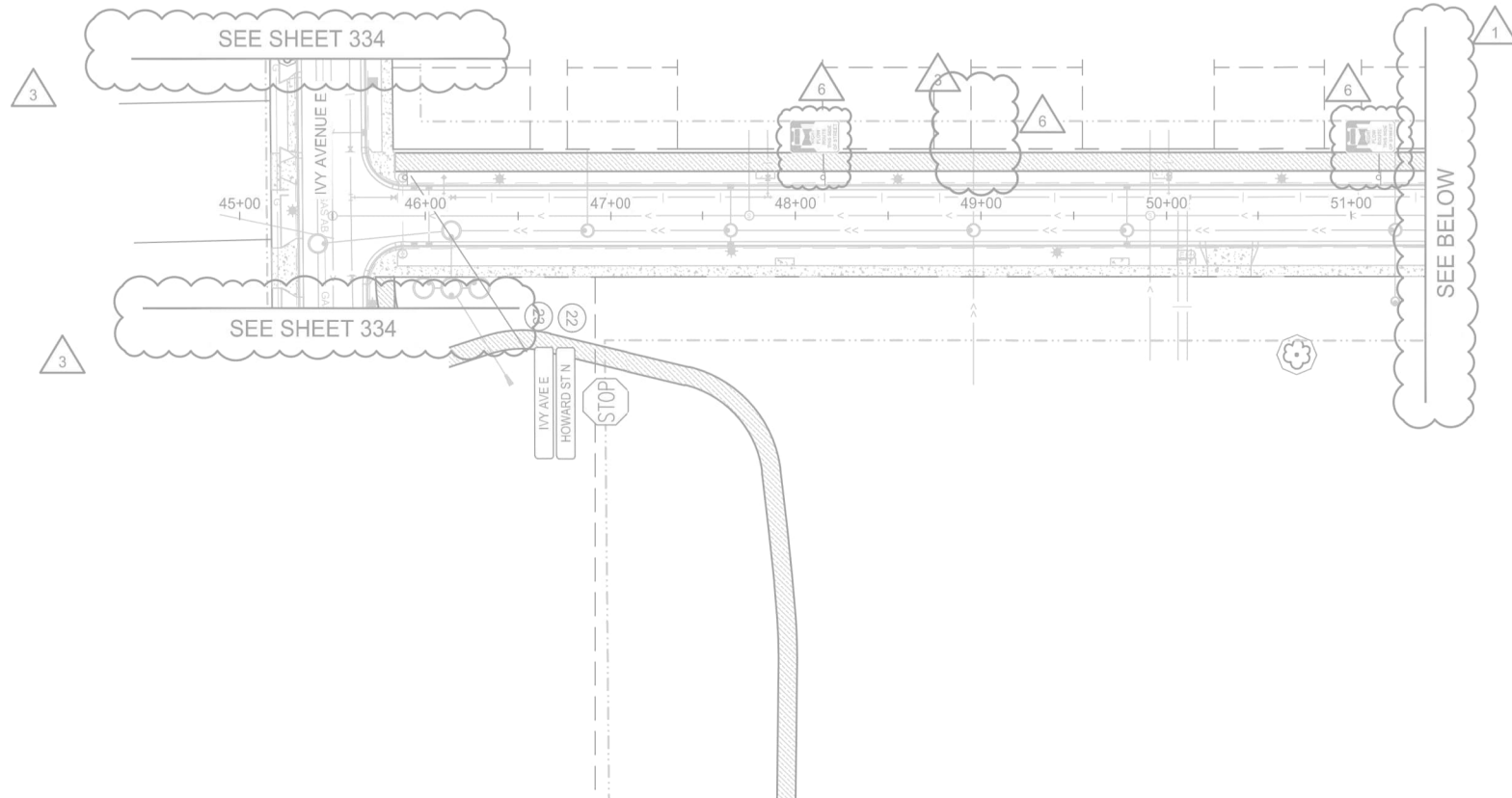


PERF-THERMO

MULTI COMP
GROUND-IN, WET REFLECTIVEPAVEMENT MARKING
PREFORMED THERMO
PLASTIC (GROUND IN)

CONSTRUCTION LIMITS

HOWARD STREET N



REVISION 7 DESCRIPTION:

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COMMENT #1'S ADDRESSED ON THIS SHEET
(SEE COMMENT LOG): 6-118, 6-129, 6-124, 6-125, 6-210, 6-211

NO.	DESCRIPTION	DATE
7	Address Rev 6 Comments	7/31/2025

DESIGNED:

DRAWN: KEB

CHECKED: DMP

I HEREBY CERTIFY THAT THIS PLAN*, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

KENT E. BRANDER

DATE: 07-31-2025

LIC. #: 44578

CIVIL METHODS, INC.

P.O. Box 28038
St. Paul, MN 55128
PH: 763.210.5713 www.civilmethods.com

OWNER:

Saint Paul
Port Authority
400 Wabasha St N
Ste 240
St. Paul, MN 55102
Phone 612-224-5686

PROJECT:

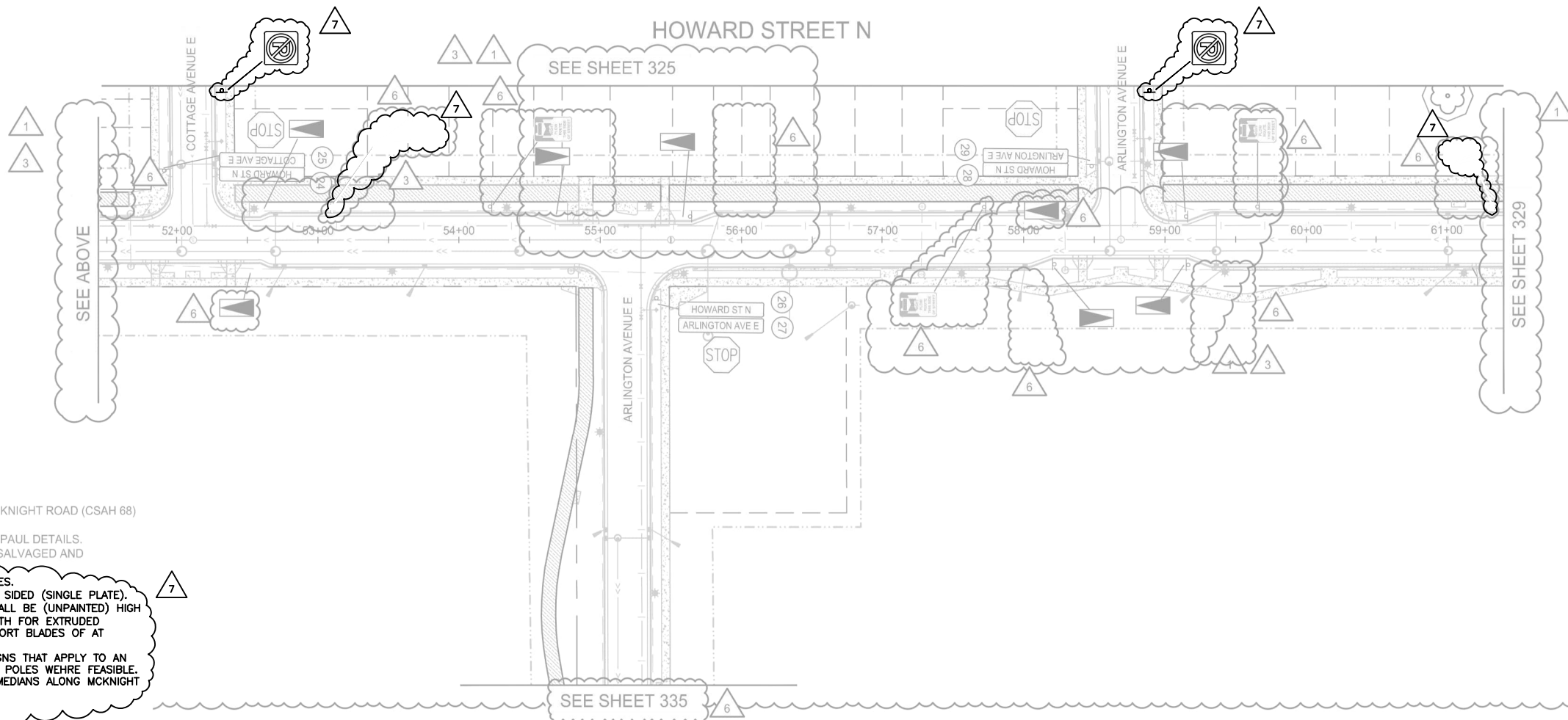
INFRASTRUCTURE
PLANS FOR:
THE HEIGHTS
SAINT PAUL,
MINNESOTA

SIGNING AND
STRIPING PLAN

CURRENT REVISION SHEET NO.:

328-R

HOWARD STREET N



NOTES:

- LARPELLE AVENUE (CSAH 30) AND MCKNIGHT ROAD (CSAH 68) USE RAMSEY COUNTY DETAILS.
- REMAINING ROADWAYS USE CITY OF ST. PAUL DETAILS.
- SEE REMOVALS PLAN FOR SIGNS TO BE SALVAGED AND REINSTALLED.
- SEE SHEET 342 FOR STREET NAME BLADES.
- ALL CITY STREET NAME BLADES ARE TWO SIDED (SINGLE PLATE).
- BRACKETS FOR STREET NAME BLADES SHALL BE (UNPAINTED) HIGH STRENGTH ALUMINUM WITH 5.5" SLOT WIDTH FOR EXTRUDED BLADES. BRACKET STRENGTH SHALL SUPPORT BLADES OF AT LEAST 48" IN LENGTH.
- NIGHT PLOW ROUTE AND NO PARKING SIGNS THAT APPLY TO AN ENTIRE BLOCK CAN BE PLACED ON LIGHT POLES WHERE FEASIBLE.
- SEE DETAIL SHEET 23 FOR PEDESTRIAN MEDIANS ALONG MCKNIGHT RD.

SCALE: AS SHOWN
DESIGN BY: PJM
PLAN BY: DEH
CHECK BY: PTH

NO.	DATE	DESCRIPTION
1	01/30/2024	ADDENDUM NO. 1
3	03/29/2024	PLAN REVISIONS
4	06/19/2024	REVISION 4
6	09/23/2024	100% PLAN COMMENTS

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PAUL HORNBY, P.E.
DATE: 03/29/2024 LIC. NO. 23359

SIGNING AND STRIPING PLAN

INFRASTRUCTURE PLANS FOR:
THE HEIGHTS
SAINT PAUL, MINNESOTA

Saint Paul
Port Authority
400 Wabasha Street North
Suite 240
St Paul, Minnesota 55102
Phone 612-224-5686

WSB PROJECT NO.
013987-000

LEGEND

- SIGN LOCATION
- CROSSWALK - MULTI-COMP
GR IN (WR)

NOTES

- SIGN LOCATIONS TO BE FIELD VERIFIED.
- CONTRACTOR TO FURNISH & INSTALL ALL SIGNS

STRIPING PAINT

1ST DIGIT WIDTH 4", 8", ETC.	2ND DIGIT PATTERN S - SOLID B - BROKEN T - DOTTED D - DOUBLE K - DOUBLE BROKEN H - DOUBLE DOTTED	3RD DIGIT COLOR W - WHITE Y - YELLOW B - BLACK
------------------------------------	---	--

XXXX
X

PERF-THERMO

XXX

MULTI COMP
GROUND-IN, WET REFLECTIVE



PAVEMENT MARKING
PREFORMED THERMO
PLASTIC (GROUND IN)

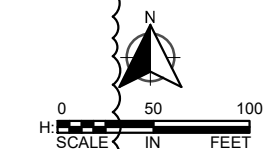
CONSTRUCTION LIMITS

IVY AVENUE EAST

SEE SHEET 325

SEE SHEET 328

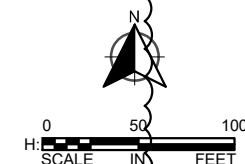
SEE BELOW



IVY AVENUE EAST

SEE SHEET 332

SEE SHEET ABOVE



NOTES:

- LARPENTEUR AVENUE (CSAH 30) AND MCKNIGHT ROAD (CSAH 68) USE RAMSEY COUNTY DETAILS.
- REMAINING ROADWAYS USE CITY OF ST. PAUL DETAILS.
- SEE REMOVALS PLAN FOR SIGNS TO BE SALVAGED AND REINSTALLED.
- SEE SHEET 342 FOR STREET NAME SIGNS.
- ALL CITY STREET NAME SIGNS ARE TWO SIDED (SINGLE PLATE).
- BRACKETS FOR STREET SIGN PANELS SHALL BE (UNPAINTED) HIGH STRENGTH ALUMINUM WITH 5.5" SLOT WIDTH FOR EXTRUDED BLADES. BRACKET STRENGTH SHALL SUPPORT BLADES OF AT LEAST 48" IN LENGTH.
- NIGHT PLOW ROUTE AND NO PARKING SIGNS THAT APPLY TO AN ENTIRE BLOCK CAN BE PLACED ON LIGHT POLES WHERE FEASIBLE.
- MCKNIGHT RD. PEDESTRIAN MEDIAN (YELLOW) IN ALL CORNERS (DETAIL SHEET 23).

CMI NOTE: SEE ALSO
SHEET 334-R, REV. 7
(CIVIL METHODS, INC.)

LEGEND

- SIGN LOCATION
— CROSSWALK - MULTI-COMP
GR IN (WR)

NOTES

- SIGN LOCATIONS TO BE FIELD VERIFIED.
- CONTRACTOR TO FURNISH & INSTALL ALL SIGNS

STRIPING PAINT

1ST DIGIT WIDTH	2ND DIGIT PATTERN	3RD DIGIT COLOR
4", 8", ETC.	S - SOLID	W - WHITE
	B - BROKEN	Y - YELLOW
	T - DOTTED	B - BLACK
	D - DOUBLE	
	K - DOUBLE BROKEN	
	H - DOUBLE DOTTED	



PERF-THERMO

MULTI COMP
GROUND-IN, WET REFLECTIVEPAVEMENT MARKING
PREFORMED THERMO
PLASTIC (GROUND IN)

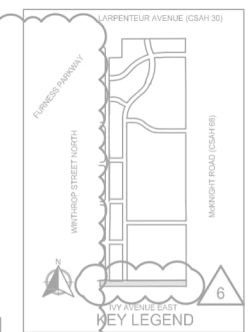
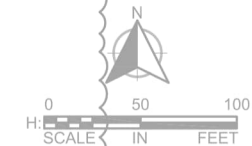
----- CONSTRUCTION LIMITS

IVY AVENUE EAST

SEE SHEET 325

SEE SHEET 328

SEE BELOW



REVISION 7 DESCRIPTION:

* The base design (faded background) is a copy of the corresponding sheet from The Heights Site Redevelopment, Revision 6, dated 09/23/2024, produced by WSB. The certification below by Civil Methods, Inc. applies only to the Revision 7 modifications shown on this sheet, done in response to comments from the City of St. Paul. Detailed descriptions of Revision 7 changes are included in a separately provided comment log.

Tree locations depicted in the base design are from Revision 6 and have since been updated. Refer to Landscape Plans by LHB for tree locations.

COMMENT #'S ADDRESSED ON THIS SHEET
(SEE COMMENT LOG): 6-118, 6-129, 6-131, 6-132

NO.	DESCRIPTION	DATE
7	Address Rev 6 Comments	7/31/2025

DESIGNED:

DRAWN: KEB

CHECKED: DMP

I HEREBY CERTIFY THAT THIS PLAN*, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

KENT E. BRANDER

DATE: 07-31-2025

LIC. #: 44578

CIVIL METHODS, INC.

P.O. Box 28038
St. Paul, MN 55128
PH: 763.210.5713 www.civilmethods.com

OWNER:

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400 Wabasha St N
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Phone 612-224-5686

PROJECT:

INFRASTRUCTURE
PLANS FOR:
THE HEIGHTS
SAINT PAUL,
MINNESOTA

SIGNING AND
STRIPING PLAN

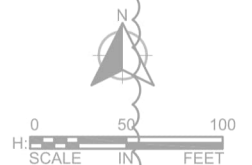
CURRENT REVISION SHEET NO.:

334-R

IVY AVENUE EAST

SEE SHEET 332

SEE SHEET ABOVE

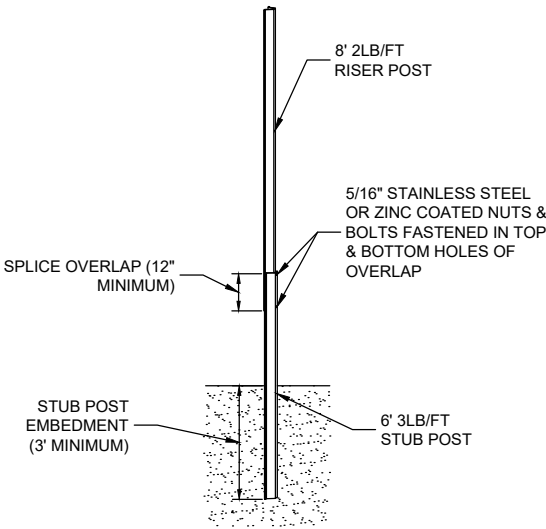


NOTES:

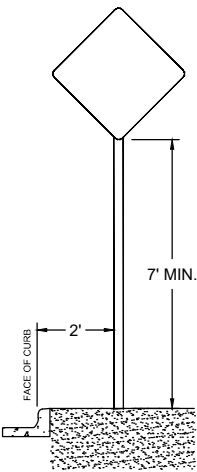
- LARPENTEUR AVENUE (CSAH 30) AND MCKNIGHT ROAD (CSAH 68) USE RAMSEY COUNTY DETAILS.
- REMAINING ROADWAYS USE CITY OF ST. PAUL DETAILS.
- SEE REMOVALS PLAN FOR SIGNS TO BE SALVAGED AND REINSTALLED.
- SEE SHEET 342 FOR STREET NAME BLADES.
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- BRACKETS FOR STREET NAME BLADES SHALL BE (UNPAINTED) HIGH STRENGTH ALUMINUM WITH 5.5" SLOT WIDTH FOR EXTRUDED BLADES. BRACKET STRENGTH SHALL SUPPORT BLADES OF AT LEAST 48" IN LENGTH.
- NIGHT PLOW ROUTE AND NO PARKING SIGNS THAT APPLY TO AN ENTIRE BLOCK CAN BE PLACED ON LIGHT POLES WHERE FEASIBLE.
- SEE DETAIL SHEET 23 FOR PEDESTRIAN MEDIANS ALONG MCKNIGHT RD.

K:\013987-000\CadPlan\SUBMITTAL\013987-000-C-SIGN-DET.Lwg 10/17/2024 7:50:07 AM

TYPICAL SIGN POST DETAIL

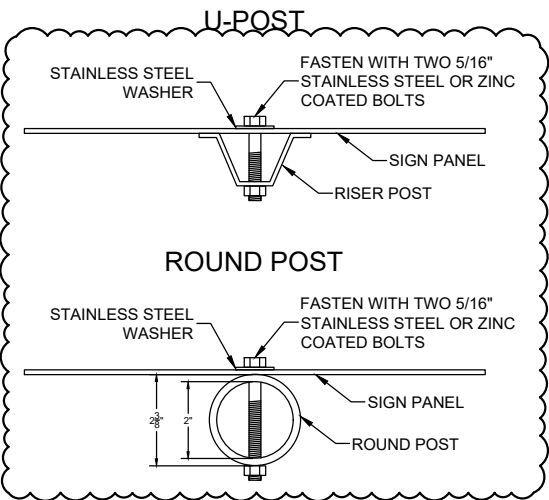


SIGN PLACEMENT GUIDELINES



- 1) MOUNTING HEIGHT OF OBJECT MARKERS AND DELINEATORS SHALL BE 4' UNLESS OTHERWISE NOTED.
- 2) MOUNTING HEIGHT OF X3-5 (SNOWPLOW MARKERS) MARKING CURB EXTENSIONS SHALL BE 3'.
- 3) MOUNTING HEIGHT OF OM3 MARKERS SHALL BE 1'.

SIGN PANEL MOUNTING DETAILS



CITY OF ST. PAUL
SIGN PLACEMENT DETAILS

CMI NOTE: SEE ALSO
SHEET 338-R, REV. 7
(CIVIL METHODS, INC.)

SCALE: AS SHOWN
DESIGN BY: PJM
PLAN BY: PJM
CHECK BY: JMT

REVISIONS

NO.	DATE	DESCRIPTION
4	06/19/2024	REVISION 4
6	09/23/2024	100% PLAN COMMENTS

SIGNING AND
STRIPING
DETAILS

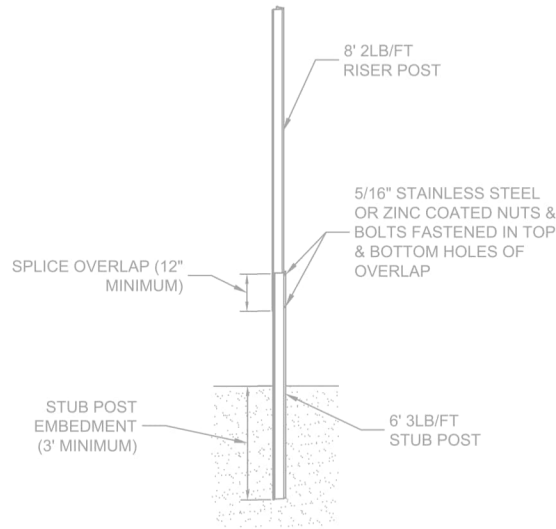
INFRASTRUCTURE PLANS FOR:
THE HEIGHTS
SAINT PAUL, MINNESOTA

Saint Paul
Port Authority
400 Wabasha Street North
Suite 240
St Paul, Minnesota 55102
Phone 612-224-5686

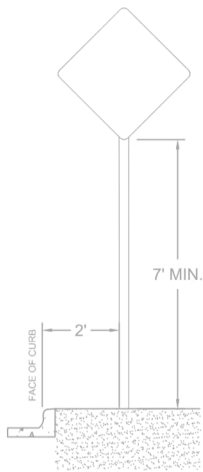
WSB PROJECT NO.
013987-000

Print Date: 7/30/2025 12:54 PM
File Loc: C:\CIVIL\Methods, Inc\CDMI - Documents\17 - Projects\25030_SPPA The Heights\08 - DRAWINGS AND SPECIFICATIONS\CD\Xref\Base\25030_REV\08_01_SIGNING_Sheet-338.dwg

TYPICAL SIGN POST DETAIL

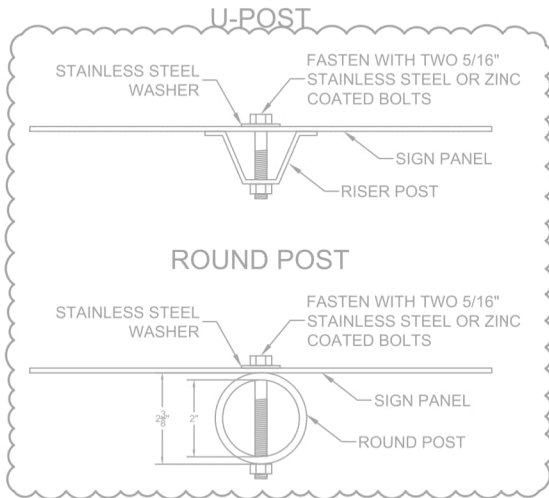


SIGN PLACEMENT GUIDELINES



- 1) MOUNTING HEIGHT OF OBJECT MARKERS AND DELINEATORS SHALL BE 4' UNLESS OTHERWISE NOTED.
- 2) MOUNTING HEIGHT OF X3-5 (SNOWPLOW MARKERS) MARKING CURB EXTENSIONS SHALL BE 3'.
- 3) MOUNTING HEIGHT OF OM3 MARKERS SHALL BE 1'.

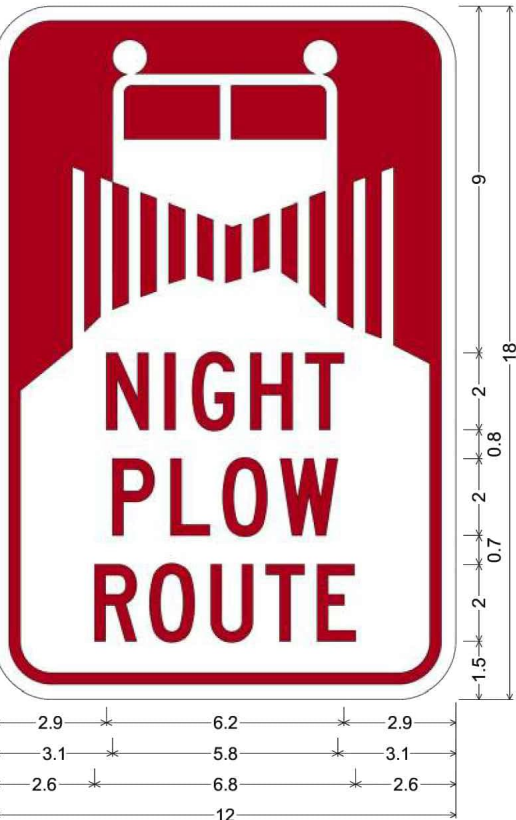
SIGN PANEL MOUNTING DETAILS



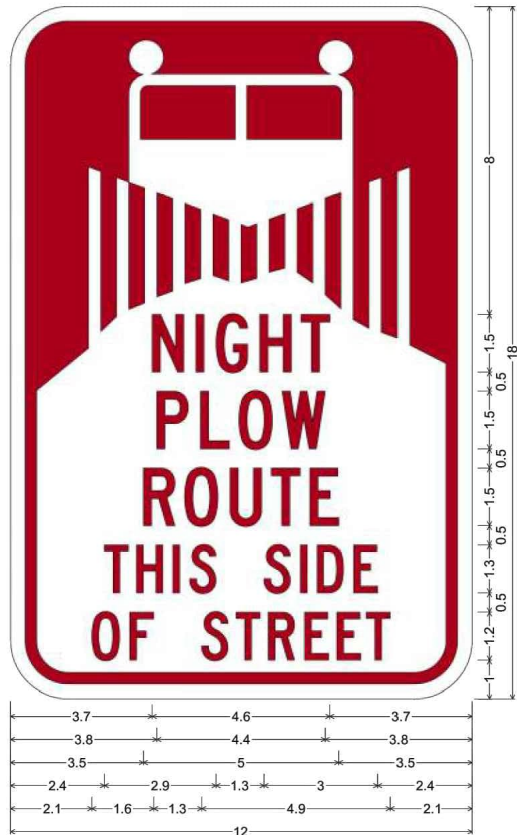
R7-2A;
1.5" Radius, 0.4" Border, 0.4" Indent, Red on White;
"BEGINS", B;



STP-NPE;
1.5" Radius, 0.4" Border, 0.4" Indent, Red on White;
"ENDS", B;



STP-NPR;
1.5" Radius, No border, Red on White;
"NIGHT", C; "PLOW", C; "ROUTE", C;



STP-NPR;
1.5" Radius, No border, Red on White;
"NIGHT", C; "PLOW", C; "ROUTE", C; "THIS SIDE", C;
"OF STREET", C;

CITY OF ST. PAUL SIGN PLACEMENT DETAILS

REVISION 7 DESCRIPTION:

* The base design (faded background) is a copy of the corresponding sheet from The Heights Site Redevelopment, Revision 6, dated 09/23/2024, produced by WSB. The certification below by Civil Methods, Inc. applies only to the Revision 7 modifications shown on this sheet, done in response to comments from the City of St. Paul. Detailed descriptions of Revision 7 changes are included in a separately provided comment log.

Tree locations depicted in the base design are from Revision 6 and have since been updated. Refer to Landscape Plans by LHB for tree locations.

COMMENT #'S ADDRESSED ON THIS SHEET
(SEE COMMENT LOG): 6-135

NO.	DESCRIPTION	DATE
7	Address Rev 6 Comments	7/31/2025

DESIGNED:

DRAWN: KEB

CHECKED: DMP

I HEREBY CERTIFY THAT THIS PLAN*, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Kent E. Brander

KENT E. BRANDER

DATE: 07-31-2025

LIC. #: 44578

CIVIL METHODS, INC.
P.O. Box 28038
St. Paul, MN 55128
PH: 763.210.5713 www.civilmethods.com

OWNER:
Saint Paul
Port Authority
400 Wabasha St N
Ste 240
St. Paul, MN 55102
Phone 612-224-5686

PROJECT:
INFRASTRUCTURE
PLANS FOR:
THE HEIGHTS
SAINT PAUL,
MINNESOTA

**SIGNING AND
STRIPING
DETAILS**

CURRENT REVISION SHEET NO.:

338-R

K:\013987-000\CadPlan\SUBMITTAL\013987-000-C-SIGN\DET.Lwg 10/17/2024 7:50:22 AM

TYPE "C" SIGN TABULATION (FURNISH AND INSTALL)								
Mn/DOT SIGN NO.	QUANTITY	NOTES	POST LENGTH (FEET)	MOUNTING HEIGHT (FEET)	SIZE (INCHES)	SIZE EACH (SQ. FEET)	SIZE TOTAL (SQ. FEET)	LEGEND
R1-1	25	1,2,3	14	7	36"X36"	9	225	STOP SIGN
R1-3P	4	1,2,3	14	7	18"X6"	0.75	3	ALL WAY
R3-2	1	1,2,3	13	7	24"X24"	4	4	MOVEMENT PROHIBITION LEFT
R3-7	3	1,2,3	13.5	7	30"X30"	6.25	18.75	RIGHT LANE MUST TURN RIGHT
R3-7M	1	1,2,3	13.5	7	30"X30"	6.25	6.25	ALL TRAFFIC MUST TURN RIGHT
R3-9CP	4	1,2,3	13	7	30"X12"	2.5	10	BEGIN
R3-9DP	1	1,2,3	13	7	30"X12"	2.5	2.5	END
R4-7	1	1,2,3	13.5	7	24"X30"	5	5	KEEP RIGHT
R8-3	17	1,2,3	13	7	24"X24"	4	68	NO PARKING (SYMBOL)
W11-2	4	1,2,3	13.5	7	30"X30"	6.25	25	PEDESTRIAN
W16-SPL	1	1,2,3	12.5	7	24"X18"	3	3	SUPPLEMENTAL ARROW (LEFT)
W16-SPR	1	1,2,3	12.5	7	24"X18"	3	3	SUPPLEMENTAL ARROW (RIGHT)
W16-7PL	2	1,2,3	13.5	7	24"X12"	2	4	ARROW POINTING DOWN LEFT
W16-7PR	2	1,2,3	13.5	7	24"X12"	2	4	ARROW POINTING DOWN RIGHT
OM3-C	1	1,2,3	11	7	12"X36"	3	3	TYPE 3 OBJECT MARKER (CENTER)
STP-NPR1S	24	1,2,3	12.5	7	18"X12"	1.5	36	ST. PAUL - NIGHT PLOW ROUTE THIS SIDE OF STREET
X3-S	21	1,2	9	7	6"X12"	0.5	10.5	SNOW PLOW MARKER (RAISE BLADE)
TOTAL	113						431	

TYPE "C" SIGN NOTES:

1. POST LENGTHS ARE APPROXIMATE AND INCLUDE POST, STABILIZER, AND ANCHOR , BUT DO NOT INCLUDE ADDITIONAL LENGTH REQUIRED FOR SPLICE.
2. SEE STANDARD SIGNS MANUAL FOR PUNCHING CODE AND DETAILED DRAWINGS OF TYPE "C" SIGNS.
3. SIGN TO BE MOUNTED TO SAME POST AS TYPE "C" SIGN.
4. SIGN TO BE MOUNTED TO SAME POST AS INSTALL SIGN (SALVAGED).

TYPE "SPECIAL" SIGN TABULATION (FURNISH AND INSTALL)					
Mn/DOT SIGN NO.	QUANTITY	NOTES	POST LENGTH (FEET)	MOUNTING HEIGHT (FEET)	LEGEND
D3-1	3	1,2,3	14	7	IVY AVE E
D3-1	1	1,2,3	14	7	ORANGE AVE E
D3-1	9	1,2,3	14	7	WINTHROP ST N
D3-1	1	1,2,3	14	7	CLEAR AVE E
D3-1	2	1,2,3	14	7	COTTAGE AVE E
D3-1	1	1,2,3	14	7	SHERWOOD AVE E
D3-1	4	1,2,3	14	7	ARLINGTON AVE E
D3-1	2	1,2,3	14	7	NEBRASKA AVE E
D3-1	1	1,2,3	14	7	HOYT AVE E
D3-1	2	1,2,3	14	7	IOWA AVE E
D3-1	3	1,2,3	14	7	IDAHO AVE E
D3-1	9	1,2,3	14	7	HOWARD ST N
D3-1	2	1,2,3	14	7	MONTANA AVE E
D3-1	1	1,2,3	14	7	LARPENTEUR AVE E
D3-1	4	1,2,3	14	7	MCKNIGHT RD N
TOTAL	45				

TYPE "SPECIAL" SIGN NOTES:

1. POST LENGTHS ARE APPROXIMATE AND INCLUDE POST, STABILIZER, AND ANCHOR , BUT DO NOT INCLUDE ADDITIONAL LENGTH REQUIRED FOR SPLICE.
2. SEE STANDARD SIGNS MANUAL FOR PUNCHING CODE AND DETAILED DRAWINGS OF TYPE "C" SIGNS.
3. SIGN TO BE MOUNTED TO SAME POST AS TYPE "C" SIGN.
4. SIGN TO BE MOUNTED TO SAME POST AS INSTALL SIGN (SALVAGED).

INSTALL SIGN (SALVAGED)					
Mn/DOT SIGN NO.	QUANTITY	NOTES	POST LENGTH (FEET)	MOUNTING HEIGHT (FEET)	LEGEND
R1-1	6	1,2,3,4	14	7	STOP SIGN
R2-1 (45)	3	1,2,3,4	13.5	7	SPEED LIMIT (45 MPH)
R3-9b	6	1,2,3	14	7	TWO-WAY LEFT TURN ONLY
R3-9dP	1	1,2,3	12.5	7	END
R3-17	2	1,2,3,4	12.5	7	BIKE LANE
R8-3	20	1,2,3,4	13	7	NO PARKING (SYMBOL)
W1-8R	4	1,2,3,4	13	7	CHEVRON ALIGNMENT (RIGHT)
W1-8L	4	1,2,3,4	13	7	CHEVRON ALIGNMENT (LEFT)
W11-2	13	1,2,3,4	13.5	7	PEDESTRIAN
W14-1	1	1,2,3,4	13.5	7	DEAD END
W16-SPL	1	1,2,3,4	12.5	7	SUPPLEMENTAL ARROW (LEFT)
W16-5PR	1	1,2,3,4	12.5	7	SUPPLEMENTAL ARROW (RIGHT)
W16-7PL	6	1,2,3,4	13.5	7	ARROW POINTING DOWN LEFT
W16-7PR	6	1,2,3,4	13.5	7	ARROW POINTING DOWN RIGHT
W16-9P	1	1,2,3,4	13.5	7	AHEAD
OM3-R	3	1,2,3,4	11	7	TYPE 3 OBJECT MARKER (RIGHT)
M1-6M (RC 68)	1	1,2,3,4	13	7	COUNTY ROUTE MARKER (RAMSEY COUNTY 68)
NO WAKE ZONE	4	1,2,3,4	13	7	NO WAKE ZONE
D3-1	4	1,2,3,4	12	7	STREET NAME SIGN
STP-NPR	3	1,2,3,4	12.5	7	ST. PAUL - NIGHT PLOW ROUTE
SAINT PAUL THE CAPITAL CITY	1	1,2,3,4	14	7	SAINT PAUL THE CAPITAL CITY
HAYDEN HEIGHTS	1	1,2,3,4	14	7	HAYDEN HEIGHTS
NO PARKING 30 FEET	1	1,2,3,4	13	7	NO PARKING 30 FEET
R8-3 MODIFIED	1	1,2,3,4	12.5	7	NO PARKING CORNER TO HERE
UNKNOWN	1	1,2,3,4	12.5	8	UNKNOWN SIGN
TOTAL	94				

SALVAGED AND REINSTALL SIGN NOTES:

1. POST LENGTHS ARE APPROXIMATE AND INCLUDE EMBEDMENT.
2. SEE SIGN DETAILS IN PLAN SET.
3. SIGN TO BE MOUNTED TO SAME POST AS TYPE "C" SIGN.
4. SIGN TO BE MOUNTED TO SAME POST AS INSTALL SIGN (SALVAGED).

CMI NOTE: SEE ALSO SHEET 341-R, REV. 7 (CIVIL METHODS, INC.)

SIGNING TABULATIONS



SCALE: AS SHOWN
DESIGN BY: PJM
PLAN BY: PJM
CHECK BY: JMT

REVISIONS

NO.	DATE	DESCRIPTION
3	03/29/2024	PLAN REVISIONS
4	06/19/2024	REVISION 4
6	09/23/2024	100% PLAN COMMENTS

SIGNING AND STRIPING DETAILS

INFRASTRUCTURE PLANS FOR:
THE HEIGHTS
SAINT PAUL, MINNESOTA

Saint Paul
Port Authority
400 Wabasha Street North
Suite 240
St Paul, Minnesota 55102
Phone 612-224-5686

WSB PROJECT NO.
013987-000

TYPE "C" SIGN TABULATION (FURNISH AND INSTALL)								
Mn/DOT SIGN NO.	QUANTITY	NOTES	POST LENGTH (FEET)	MOUNTING HEIGHT (FEET)	SIZE (INCHES)	SIZE EACH (SQ. FEET)	SIZE TOTAL (SQ. FEET)	LEGEND
R1-1	25	1,2,3	14	7	36"X36"	9	225	STOP SIGN
R1-3P	4	1,2,3	14	7	18"X6"	0.75	3	ALL WAY
R3-2	1	1,2,3	13	7	24"X24"	4	4	MOVEMENT PROHIBITION LEFT
R3-7	3	1,2,3	13.5	7	30"X30"	6.25	18.75	RIGHT LANE MUST TURN RIGHT
R3-7M	1	1,2,3	13.5	7	30"X30"	6.25	6.25	ALL TRAFFIC MUST TURN RIGHT
R3-9CP	4	1,2,3	13	7	30"X12"	2.5	10	BEGIN
R3-9DP	1	1,2,3	13	7	30"X12"	2.5	2.5	END
R4-7	1	1,2,3	13.5	7	24"X30"	5	5	KEEP RIGHT
R8-3	17	1,2,3	13	7	24"X24"	4	68	NO PARKING (SYMBOL)
W11-2	4	1,2,3	13.5	7	30"X30"	6.25	25	PEDESTRIAN
W1-6	1	1,2,3	12.5	7	24"X18"	3	3	SUPPLEMENTAL ARROW (LEFT)
W1-6	1	1,2,3	12.5	7	24"X18"	3	3	SUPPLEMENTAL ARROW (RIGHT)
W16-7PL	2	1,2,3	13.5	7	24"X12"	2	4	ARROW POINTING DOWN LEFT
W16-7PR	2	1,2,3	13.5	7	24"X12"	2	4	ARROW POINTING DOWN RIGHT
OM3-C	1	1,2,3	11	7	12"X36"	3	3	TYPE 3 OBJECT MARKER (CENTER)
STP-NPR1S	24	1,2,3	12.5	7	18"X12"	1.5	36	ST. PAUL - NIGHT PLOW ROUTE THIS SIDE OF STREET
X3-S	21	1,2	9	7	6"X12"	0.5	10.5	SNOW PLOW MARKER (RAISE BLADE)
TOTAL	113						431	

TYPE "C" SIGN NOTES:

1. POST LENGTHS ARE APPROXIMATE AND INCLUDE POST, STABILIZER, AND ANCHOR, , BUT DO NOT INCLUDE ADDITIONAL LENGTH REQUIRED FOR SPLICE.
2. SEE STANDARD SIGNS MANUAL FOR PUNCHING CODE AND DETAILED DRAWINGS OF TYPE "C" SIGNS.
3. SIGN TO BE MOUNTED TO SAME POST AS TYPE "C" SIGN.
4. SIGN TO BE MOUNTED TO SAME POST AS INSTALL SIGN (SALVAGED).

TYPE "SPECIAL" SIGN TABULATION (FURNISH AND INSTALL)					
Mn/DOT SIGN NO.	QUANTITY	NOTES	POST LENGTH (FEET)	MOUNTING HEIGHT (FEET)	LEGEND
D3-1	3	1,2,3	14	7	IVY AVE E
D3-1	1	1,2,3	14	7	ORANGE AVE E
D3-1	9	1,2,3	14	7	WINTHROP ST N
D3-1	1	1,2,3	14	7	CLEAR AVE E
D3-1	2	1,2,3	14	7	COTTAGE AVE E
D3-1	1	1,2,3	14	7	SHERWOOD AVE E
D3-1	4	1,2,3	14	7	ARLINGTON AVE E
D3-1	2	1,2,3	14	7	NEBRASKA AVE E
D3-1	1	1,2,3	14	7	HOYT AVE E
D3-1	2	1,2,3	14	7	IOWA AVE E
D3-1	3	1,2,3	14	7	IDAHO AVE E
D3-1	9	1,2,3	14	7	HOWARD ST N
D3-1	2	1,2,3	14	7	MONTANA AVE E
D3-1	1	1,2,3	14	7	LARPEUTEUR AVE E
D3-1	4	1,2,3	14	7	MCKNIGHT RD N
TOTAL	45				

TYPE "SPECIAL" SIGN NOTES:

1. POST LENGTHS ARE APPROXIMATE AND INCLUDE POST, STABILIZER, AND ANCHOR, , BUT DO NOT INCLUDE ADDITIONAL LENGTH REQUIRED FOR SPLICE.
2. SEE STANDARD SIGNS MANUAL FOR PUNCHING CODE AND DETAILED DRAWINGS OF TYPE "C" SIGNS.
3. SIGN TO BE MOUNTED TO SAME POST AS TYPE "C" SIGN.
4. SIGN TO BE MOUNTED TO SAME POST AS INSTALL SIGN (SALVAGED).

INSTALL SIGN (SALVAGED)					
Mn/DOT SIGN NO.	QUANTITY	NOTES	POST LENGTH (FEET)	MOUNTING HEIGHT (FEET)	LEGEND
R1-1	6	1,2,3,4	14	7	STOP SIGN
R2-1 (4S)	3	1,2,3,4	13.5	7	SPEED LIMIT (45 MPH)
R3-9b	6	1,2,3	14	7	TWO-WAY LEFT TURN ONLY
R3-9dP	1	1,2,3	12.5	7	END
R3-17	2	1,2,3,4	12.5	7	BIKE LANE
R8-3	20	1,2,3,4	13	7	NO PARKING (SYMBOL)
W1-8R	4	1,2,3,4	13	7	CHEVRON ALIGNMENT (RIGHT)
W1-8L	4	1,2,3,4	13	7	CHEVRON ALIGNMENT (LEFT)
W11-2	13	1,2,3,4	13.5	7	PEDESTRIAN
W14-1	1	1,2,3,4	13.5	7	DEAD END
W1-6	1	1,2,3,4	12.5	7	SUPPLEMENTAL ARROW (LEFT)
W1-6	1	1,2,3,4	12.5	7	SUPPLEMENTAL ARROW (RIGHT)
W16-7PL	6	1,2,3,4	13.5	7	ARROW POINTING DOWN LEFT
W16-7PR	6	1,2,3,4	13.5	7	ARROW POINTING DOWN RIGHT
W16-9P	1	1,2,3,4	13.5	7	AHEAD
OM3-R	3	1,2,3,4	11	7	TYPE 3 OBJECT MARKER (RIGHT)
M1-6M (RC 68)	1	1,2,3,4	13	7	COUNTY ROUTE MARKER (RAMSEY COUNTY 68)
NO WAKE ZONE	4	1,2,3,4	13	7	NO WAKE ZONE
D3-1	4	1,2,3,4	12	7	STREET NAME SIGN
STP-NPR	3	1,2,3,4	12.5	7	ST. PAUL - NIGHT PLOW ROUTE
SAINT PAUL THE CAPITAL CITY	1	1,2,3,4	14	7	SAINT PAUL THE CAPITAL CITY
HAYDEV HEIGHTS	1	1,2,3,4	14	7	HAYDEN HEIGHTS
NO PARKING 30 FEET	1	1,2,3,4	13	7	NO PARKING 30 FEET
R8-3 MODIFIED	1	1,2,3,4	12.5	7	NO PARKING CORNER TO HERE
UNKNOWN	1	1,2,3,4	12.5	8	UNKNOWN SIGN
TOTAL	94				

SALVAGED AND REINSTALL SIGN NOTES:

1. POST LENGTHS ARE APPROXIMATE AND INCLUDE EMBEDMENT.
2. SEE SIGN DETAILS IN PLAN SET.
3. SIGN TO BE MOUNTED TO SAME POST AS TYPE "C" SIGN.
4. SIGN TO BE MOUNTED TO SAME POST AS INSTALL SIGN (SALVAGED).

REVISION 7 DESCRIPTION:

* The base design (faded background) is a copy of the corresponding sheet from The Heights Site Redevelopment, Revision 6, dated 09/23/2024, produced by WSB. The certification below by Civil Methods, Inc. applies only to the Revision 7 modifications shown on this sheet, done in response to comments from the City of St. Paul. Detailed descriptions of Revision 7 changes are included in a separately provided comment log.

Tree locations depicted in the base design are from Revision 6 and have since been updated. Refer to Landscape Plans by LHB for tree locations.

COMMENT #15 ADDRESSED ON THIS SHEET (SEE COMMENT LOG): 6-341

NO.	DESCRIPTION	DATE
7	Address Rev 6 Comments	7/31/2025

DESIGNED:

DRAWN: KEB

CHECKED: DMP

I HEREBY CERTIFY THAT THIS PLAN*, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

KENT E. BRANDER

DATE: 07-31-2025

LIC. #: 44578

CIVIL METHODS, INC.

P.O. Box 28038
St. Paul, MN 55128
PH: 763.210.5713 www.civilmethods.com

OWNER:

Saint Paul
Port Authority
400 Wabasha St N
Ste 240
St. Paul, MN 55102
Phone 612-224-5686

PROJECT:

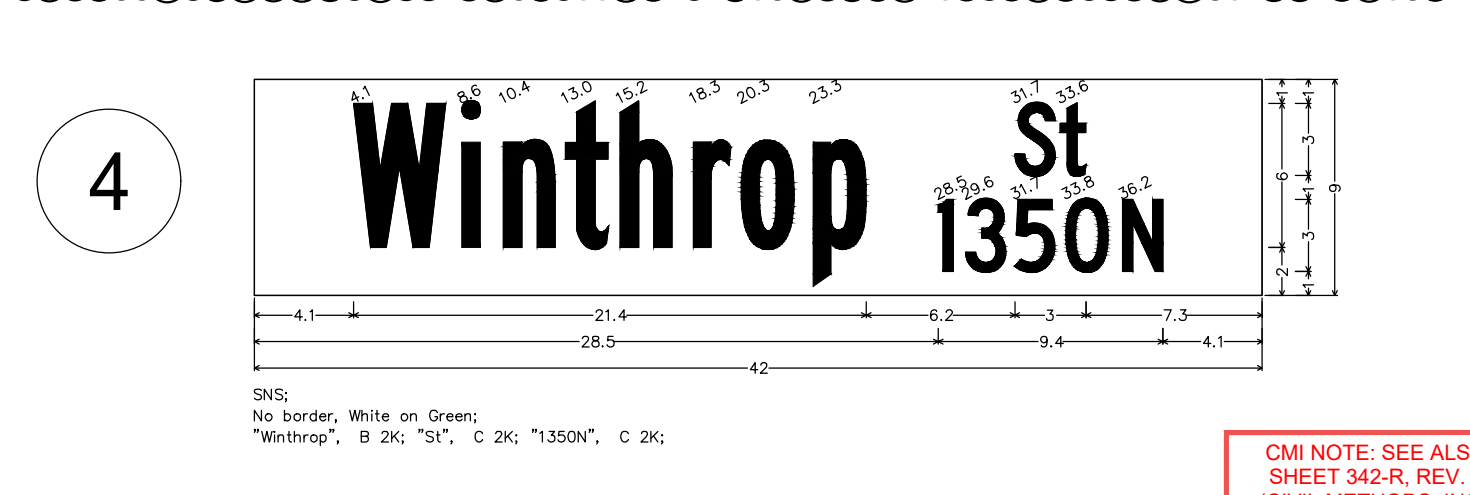
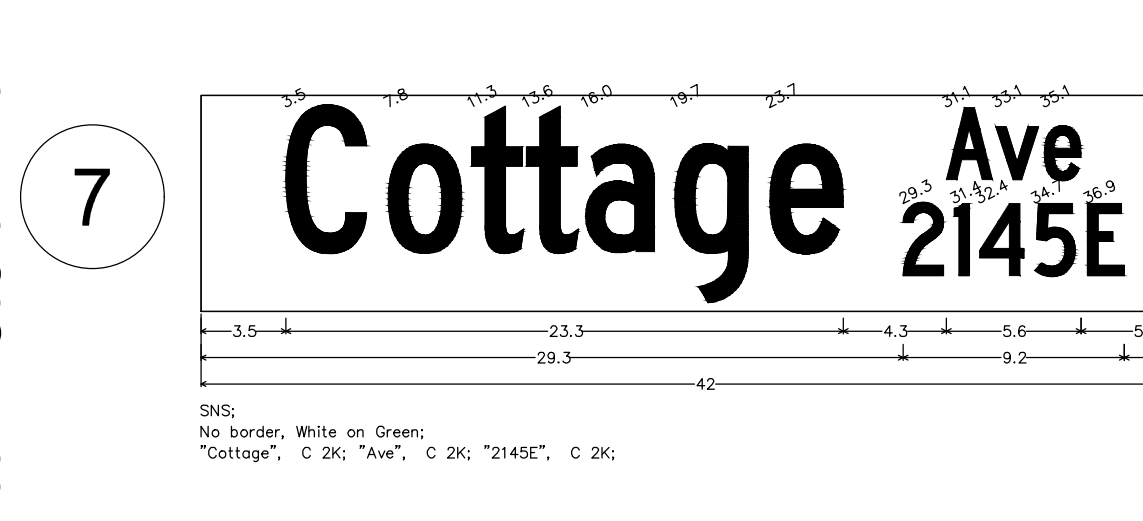
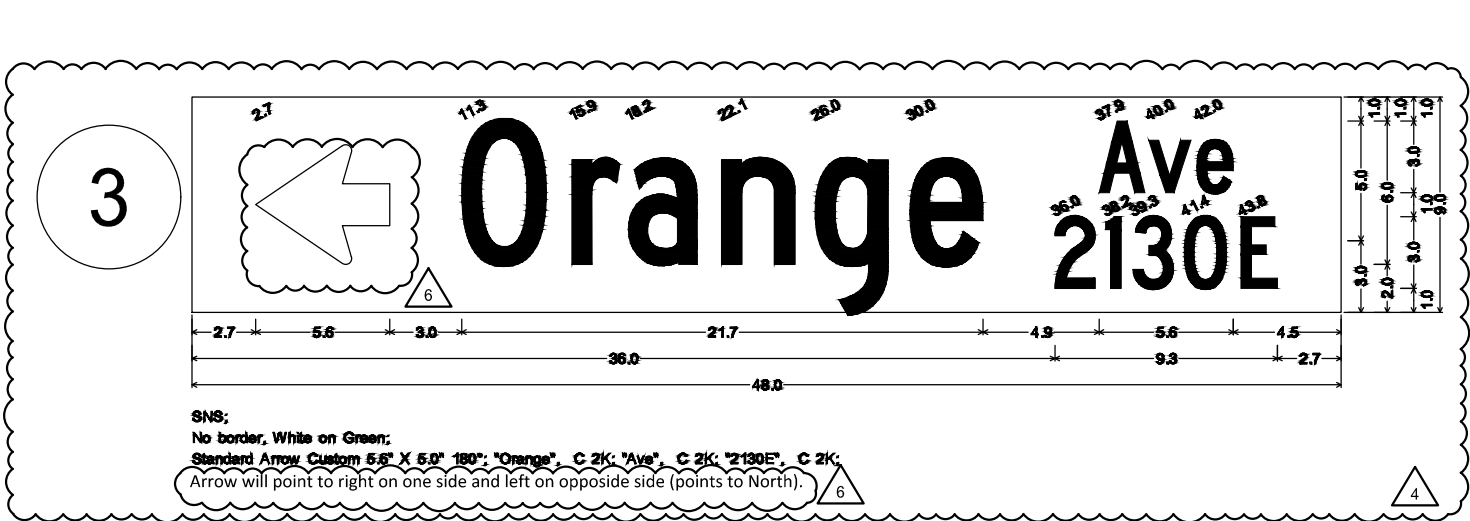
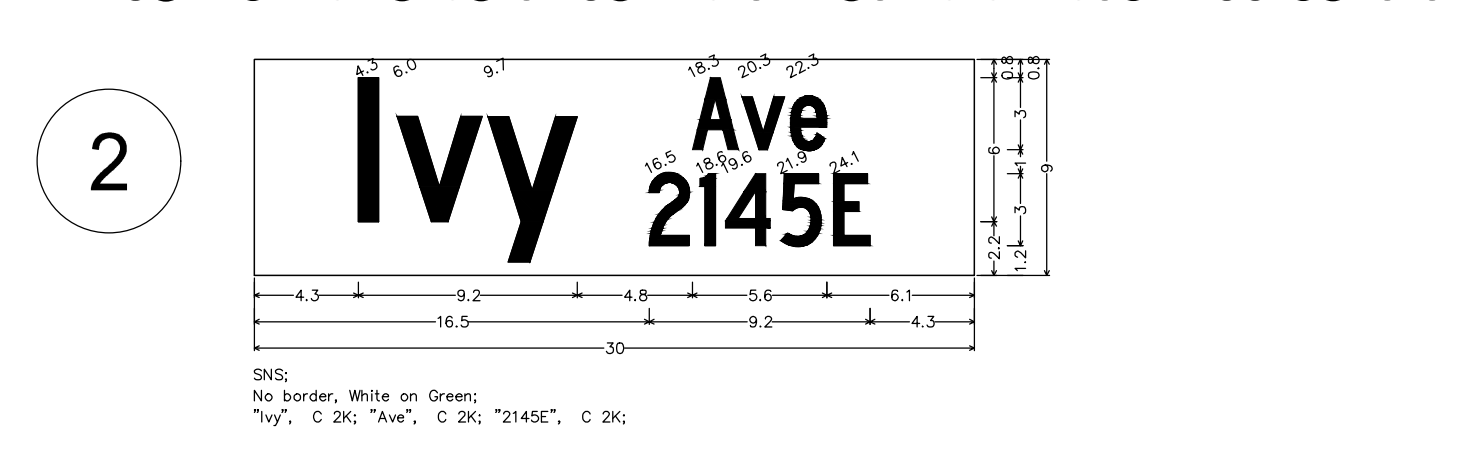
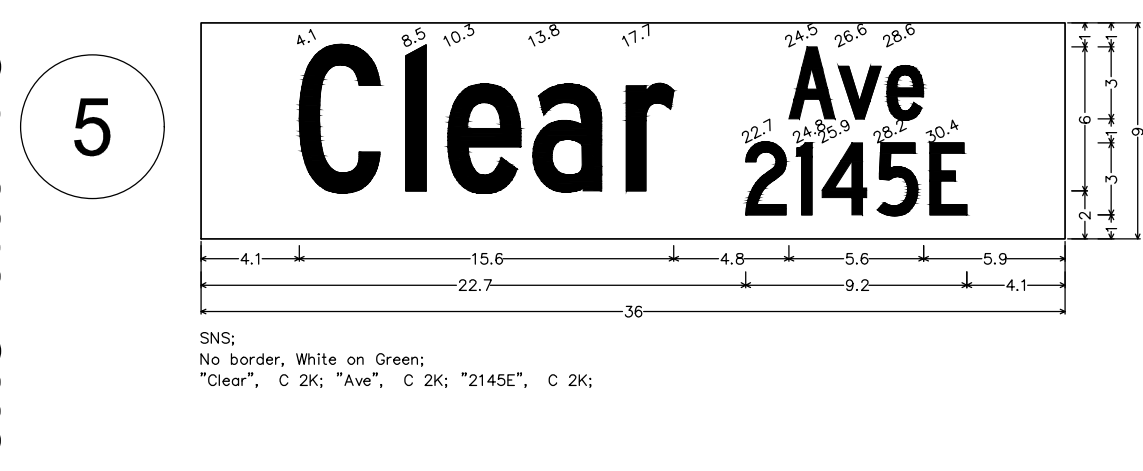
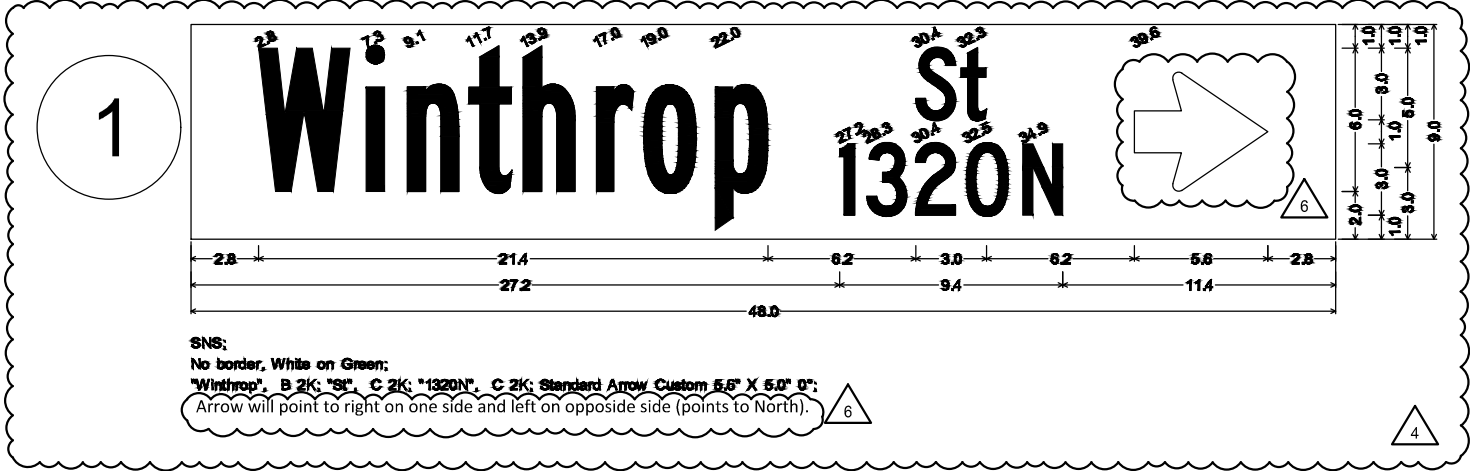
INFRASTRUCTURE
PLANS FOR:
THE HEIGHTS
SAINT PAUL,
MINNESOTA

SIGNING AND
STRIPING
DETAILS

CURRENT REVISION SHEET NO.:

341-R

K:\013987-000\Cad\Plan\SUBMITTAL\013987-000-C-SIGN-DET.dwg 10/17/2024 7:50:27 AM



CMI NOTE: SEE ALSO
SHEET 342-R, REV. 7
(CIVIL METHODS, INC.)

SCALE: AS SHOWN
DESIGN BY: PJM
PLAN BY: DEH
CHECK BY: PTH

REVISIONS		NO.	DATE	DESCRIPTION
		4	06/19/2024	REVISION 4
		6	09/23/2024	100% PLAN COMMENTS

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PAUL HORNBY, P.E.
DATE: 03/29/2024 LIC. NO.: 23359

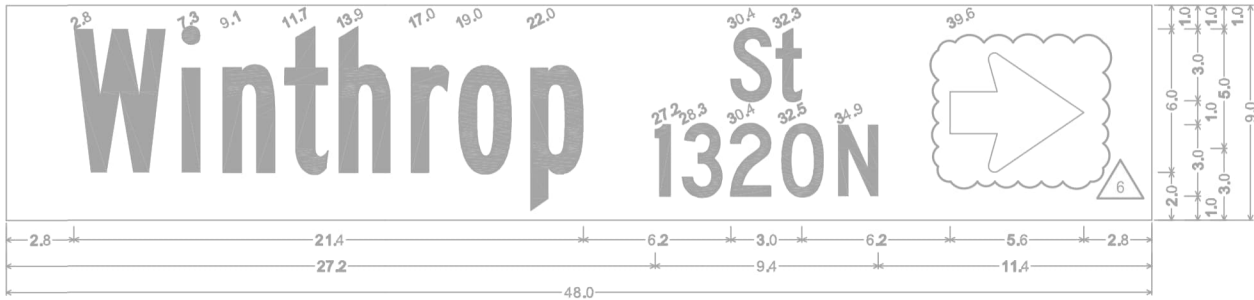
SIGNING AND
STRIPING
DETAILS

INFRASTRUCTURE PLANS FOR:
THE HEIGHTS
SAINT PAUL, MINNESOTA

Saint Paul
Port Authority
400 Wabasha Street North
Suite 240
St Paul, Minnesota 55102
Phone 612-224-5686

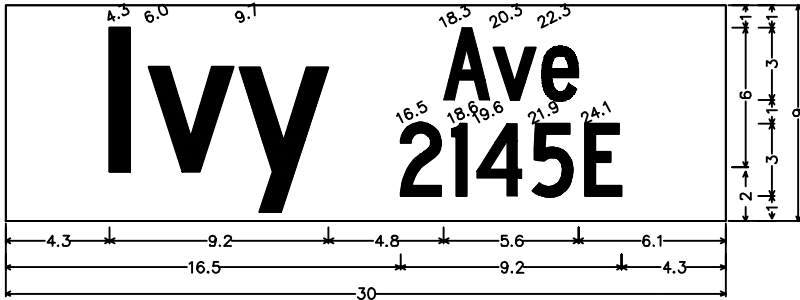
WSB PROJECT NO.
013987-000

1



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No border, White on Green;
"Winthrop", B 2K; "St", C 2K; "1320N", C 2K; Standard Arrow Custom 5.6" X 5.0" 0";
Arrow will point to right on one side and left on opposite side (points to North).

2



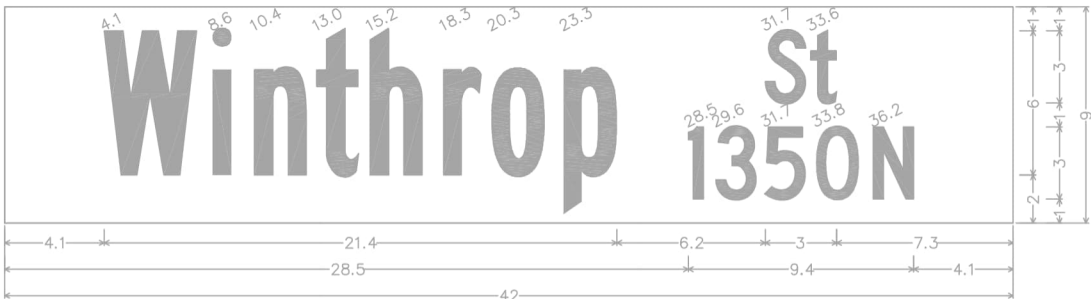
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3



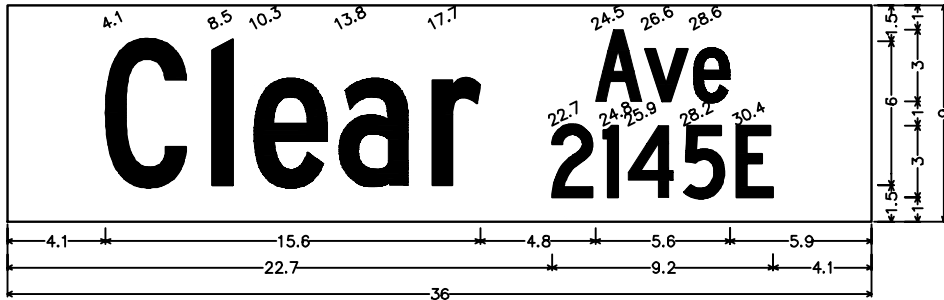
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Standard Arrow Custom 5.6" X 5.0" 180"; "Orange", C 2K; "Ave", C 2K; "2130E", C 2K;
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4



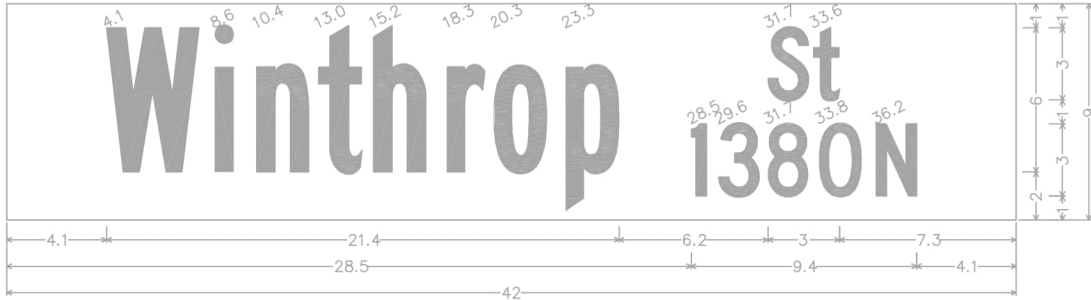
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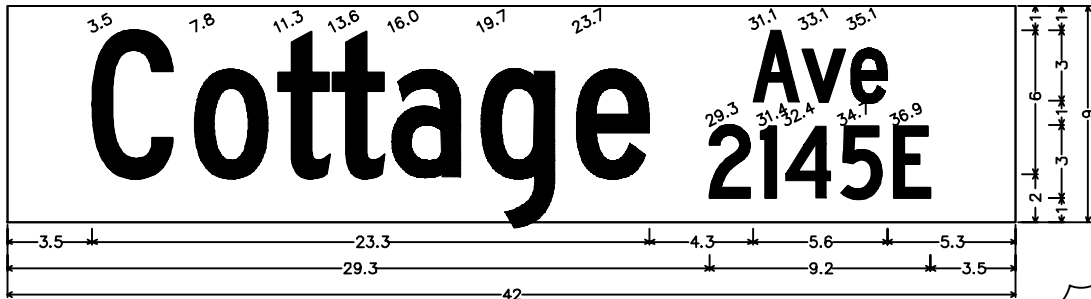
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"Clear", C 2K; "Ave", C 2K; "2145E", C 2K;

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"Winthrop", B 2K; "St", C 2K; "1380N", C 2K;

7



SNS;
No border, White on Green;
"Cottage", C 2K; "Ave", C 2K; "2145E", C 2K;

8



SNS;
No border, White on Green;
"Winthrop", B 2K; "St", C 2K; "1415N", C 2K;

REVISION 7 DESCRIPTION:

* The base design (faded background) is a copy of the corresponding sheet from The Heights Site Redevelopment, Revision 6, dated 09/23/2024, produced by WSB. The certification below by Civil Methods, Inc. applies only to the Revision 7 modifications shown on this sheet, done in response to comments from the City of St. Paul. Detailed descriptions of Revision 7 changes are included in a separately provided comment log.

Tree locations depicted in the base design are from Revision 6 and have since been updated. Refer to Landscape Plans by LHB for tree locations.

COMMENT #15 ADDRESSED ON THIS SHEET (SEE COMMENT LOG): 6-138, 6-139, 6-140

NO.	DESCRIPTION	DATE
7	Address Rev 6 Comments	7/31/2025

DESIGNED:

DRAWN: KEB

CHECKED: DMP

I HEREBY CERTIFY THAT THIS PLAN*, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Kent E. Brander
KENT E. BRANDER

DATE: 07-31-2025

LIC. #: 44578

CIVIL METHODS, INC.

P.O. Box 28038
St. Paul, MN 55128
PH: 763.210.5713 www.civilmethods.com

OWNER:

Saint Paul
Port Authority
400 Wabasha St N
Ste 240
St. Paul, MN 55102
Phone 612-224-5686

PROJECT:

INFRASTRUCTURE
PLANS FOR:
THE HEIGHTS
SAINT PAUL,
MINNESOTA

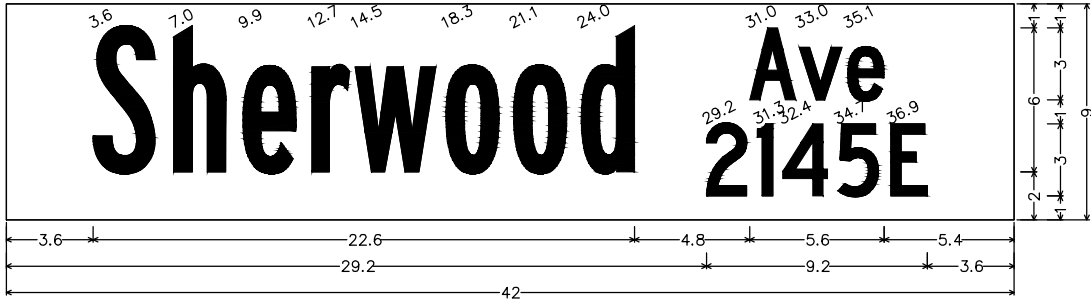
SIGNING AND
STRIPING
DETAILS

CURRENT REVISION SHEET NO.:

342-R

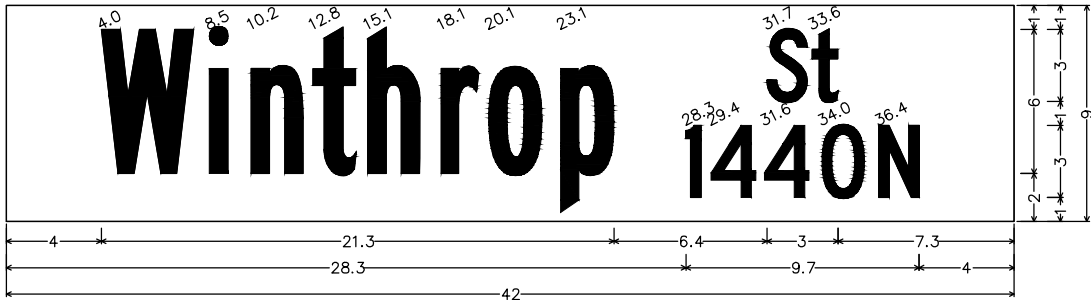
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9



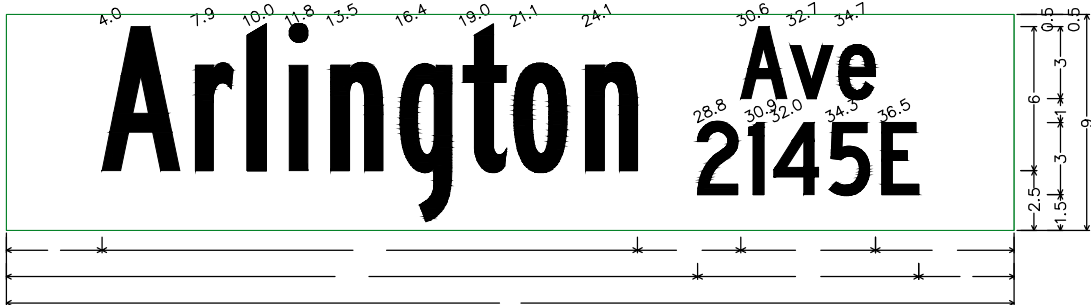
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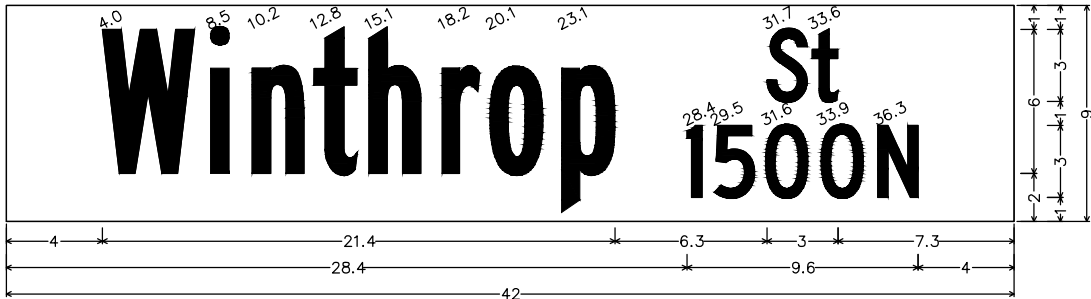
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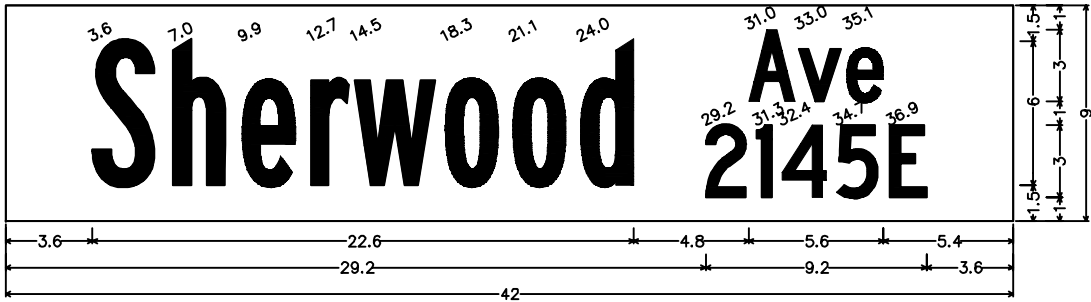


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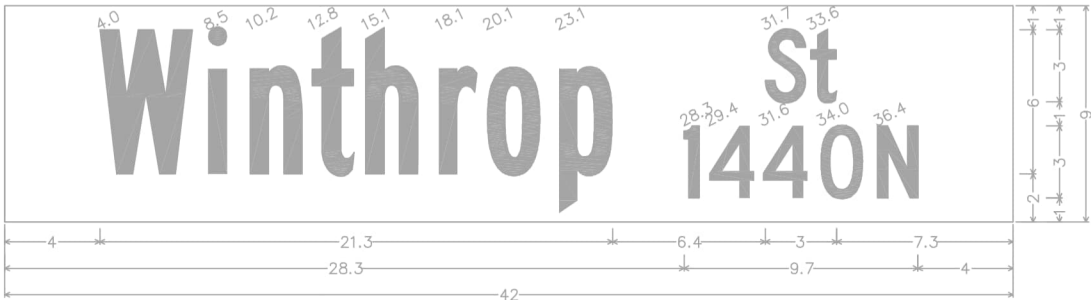
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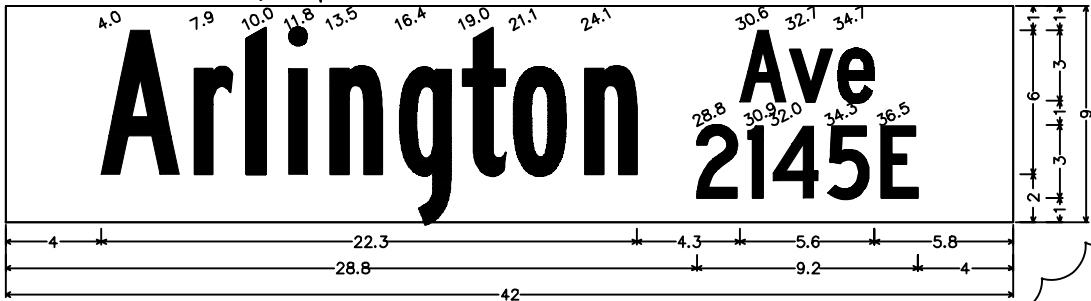
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10



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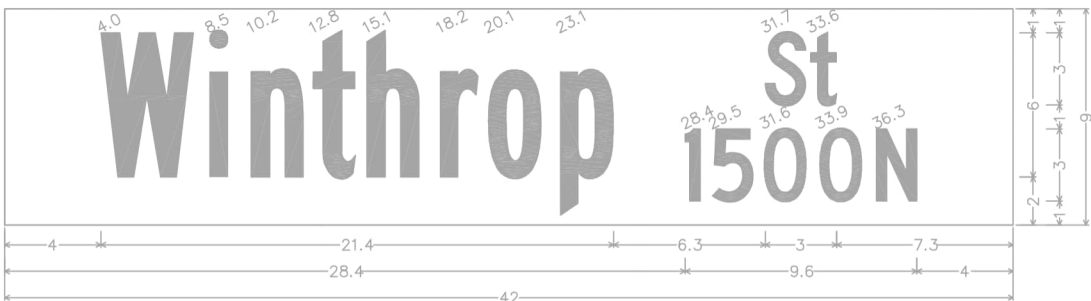
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No border, White on Green;
"Arlington", B 2K; "Ave", C 2K; "2145E", C 2K;

7

12



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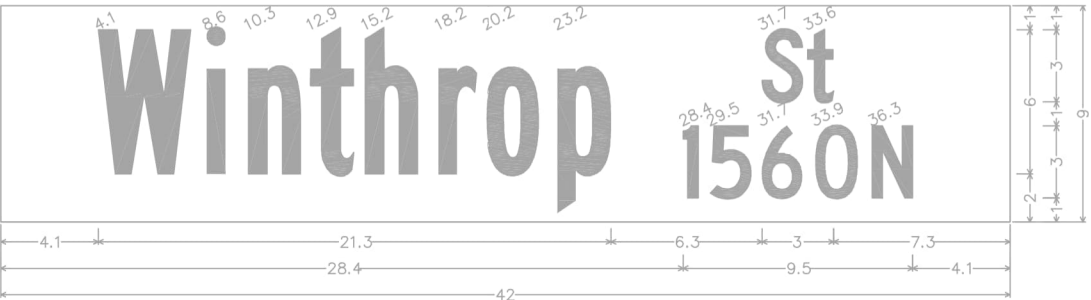
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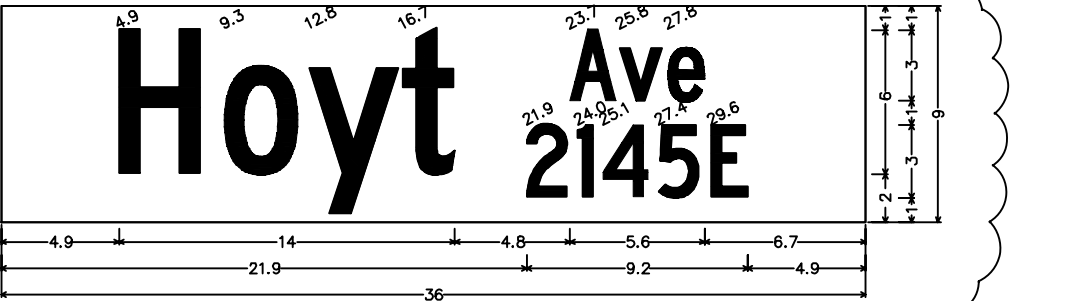
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14



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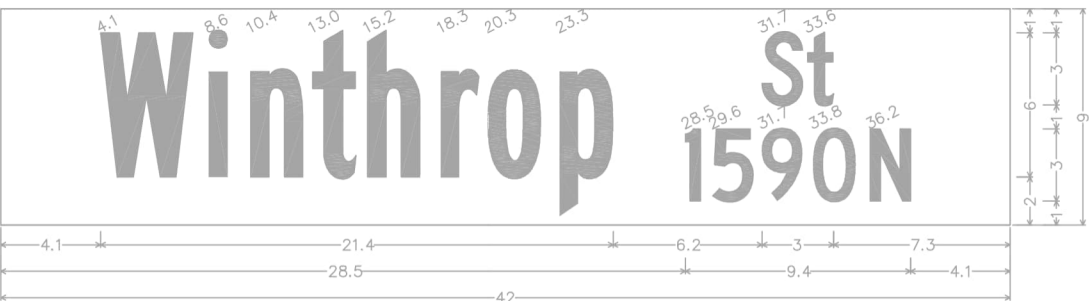
15



SNS;
No border, White on Green;
"Hoyt", C 2K; "Ave", C 2K; "2145E", C 2K;

7

16



SNS;
No border, White on Green;
"Winthrop", B 2K; "St", C 2K; "1590N", C 2K;

REVISION 7 DESCRIPTION:

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Tree locations depicted in the base design are from Revision 6 and have since been updated. Refer to Landscape Plans by LHB for tree locations.

COMMENT #15 ADDRESSED ON THIS SHEET (SEE COMMENT LOG): 6-141, 6-142, 6-143, 6-144

NO.	DESCRIPTION	DATE
7	Address Rev 6 Comments	7/31/2025

DESIGNED:

DRAWN: KEB

CHECKED: DMP

I HEREBY CERTIFY THAT THIS PLAN*, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Kent E. Brander

KENT E. BRANDER

DATE: 07-31-2025

LIC. #: 44578

CIVIL METHODS, INC.

P.O. Box 28038
St. Paul, MN 55128
PH: 763.210.5713 www.civilmethods.com

OWNER:

Saint Paul
Port Authority
400 Wabasha St N
Ste 240
St. Paul, MN 55102
Phone 612-224-5686

PROJECT:

INFRASTRUCTURE
PLANS FOR:
THE HEIGHTS
SAINT PAUL,
MINNESOTA

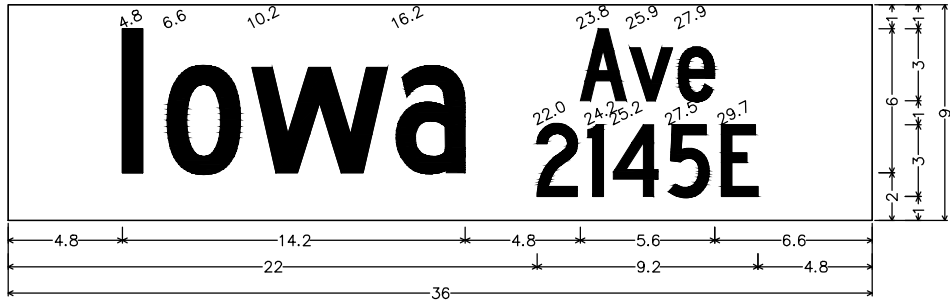
SIGNING AND
STRIPING
DETAILS

CURRENT REVISION SHEET NO.:

343-R

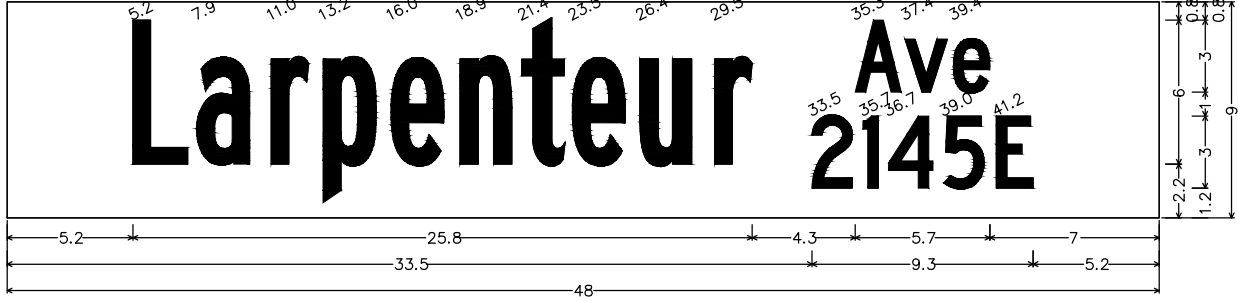
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17



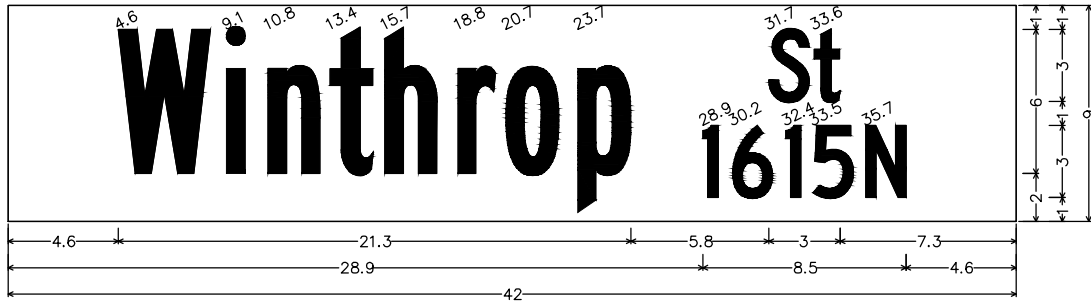
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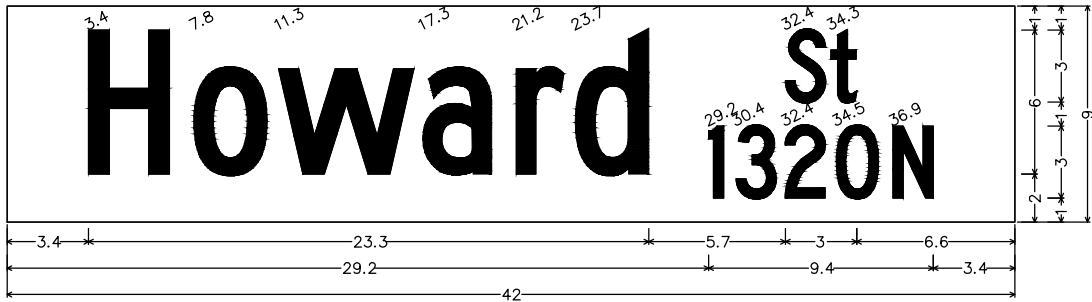
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"Larpenteur", B 2K; "Ave", C 2K; "2145E", C 2K;

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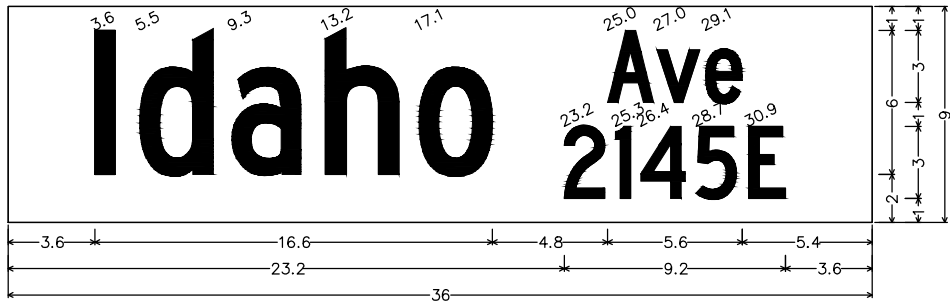
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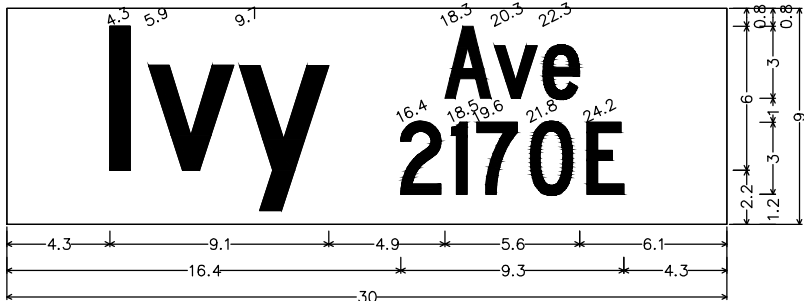
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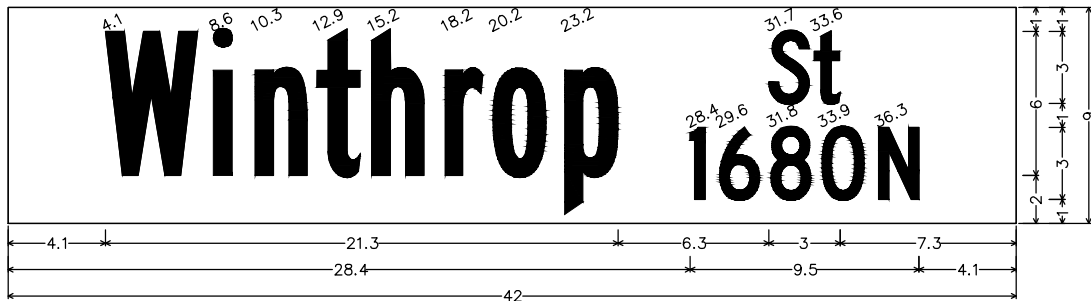
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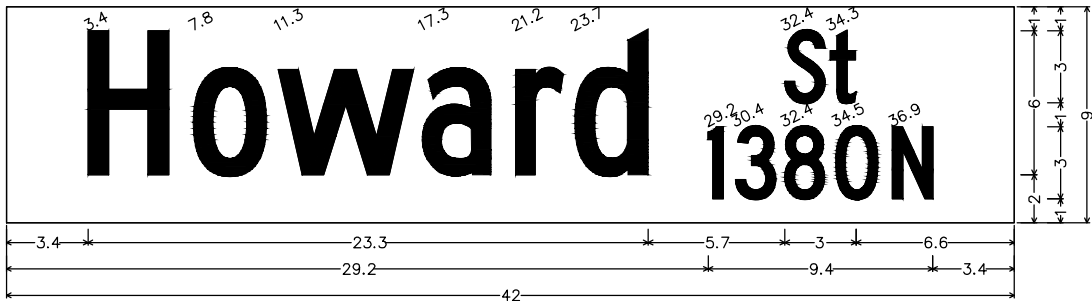
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SNS;
No border, White on Green;
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24



SNS;
No border, White on Green;
"Howard", C 2K; "St", C 2K; "1380N", C 2K;

CMI NOTE: SEE ALSO
SHEET 344-R, REV. 7
(CIVIL METHODS, INC.)

SCALE: AS SHOWN
DESIGN BY: PJM
PLAN BY: DEH
CHECK BY: PTH

REVISIONS

NO.	DATE	DESCRIPTION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PAUL HORNBY, P.E.
DATE: 03/29/2024 LIC. NO. 23359

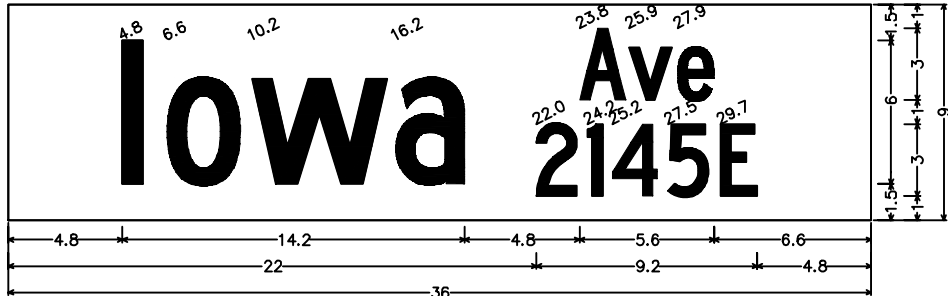
SIGNING AND STRIPING DETAILS

INFRASTRUCTURE PLANS FOR:
THE HEIGHTS
SAINT PAUL, MINNESOTA

Saint Paul
Port Authority
400 Wabasha Street North
Suite 240
St Paul, Minnesota 55102
Phone 612-224-5686

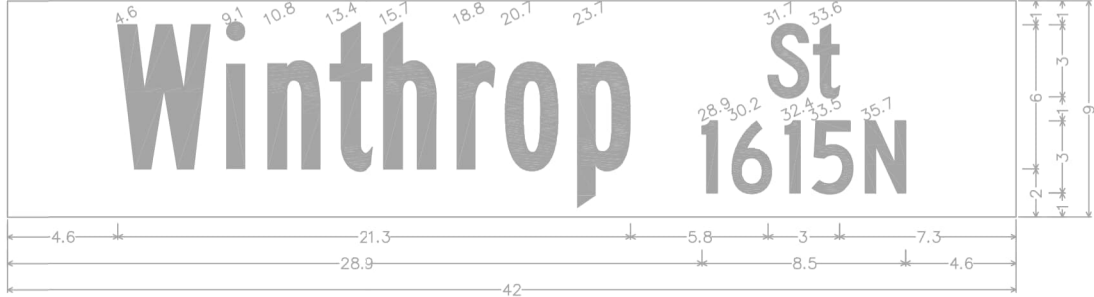
WSB PROJECT NO.
013987-000

17



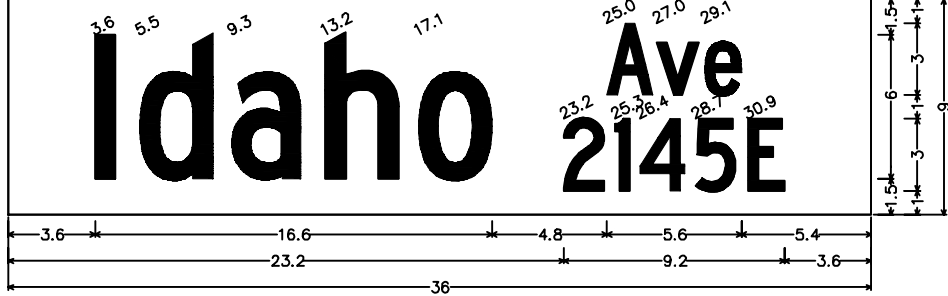
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18



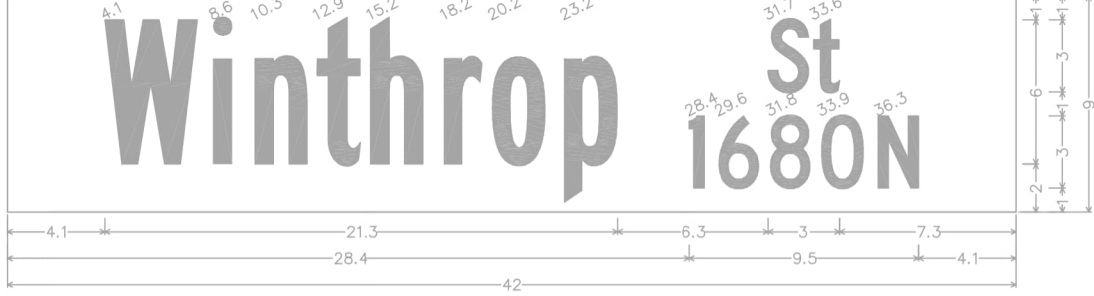
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No border, White on Green;
"Winthrop", B 2K; "St", C 2K; "1615N", C 2K;

19



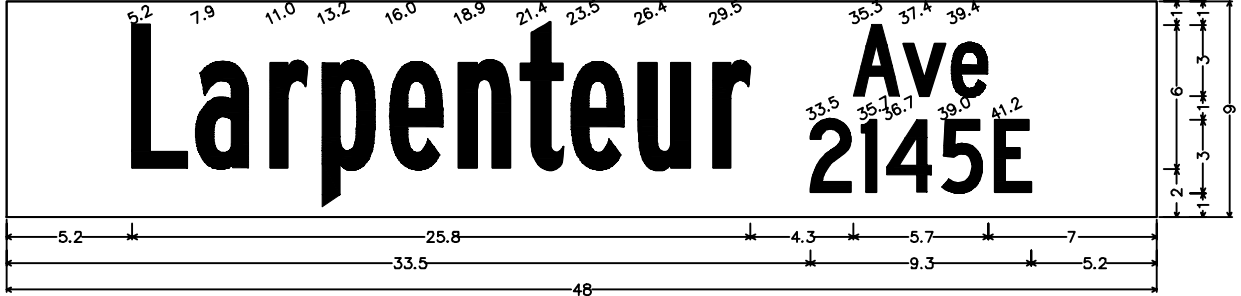
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20



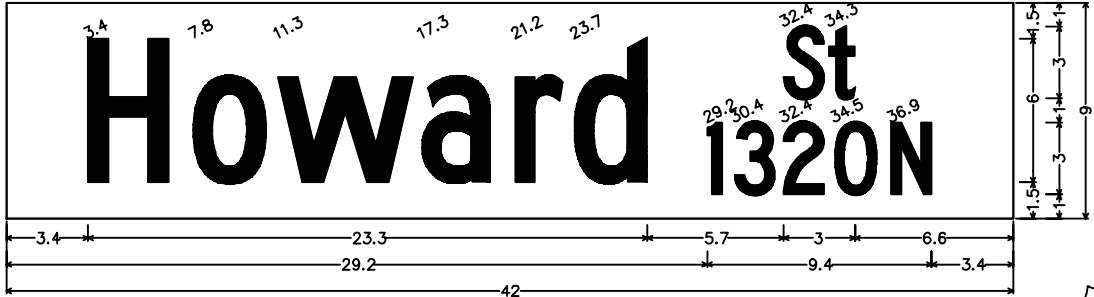
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No border, White on Green;
"Winthrop", B 2K; "St", C 2K; "1680N", C 2K;

21



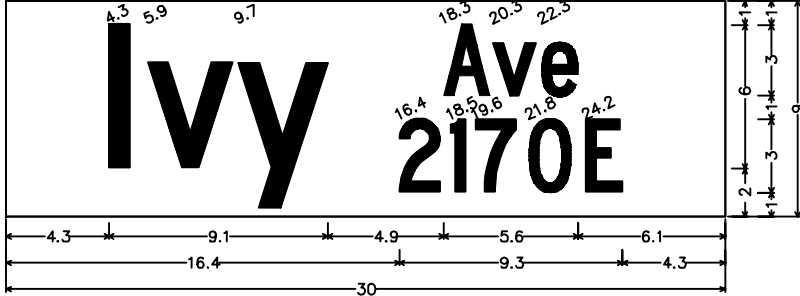
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"Larpenteur", B 2K; "Ave", C 2K; "2145E", C 2K;

22



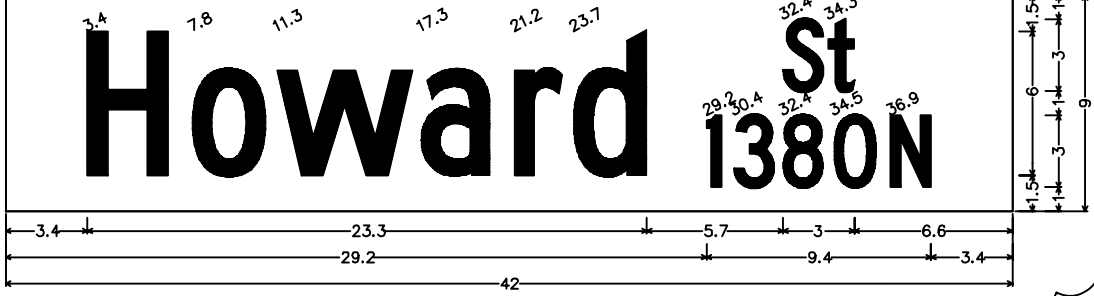
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No border, White on Green;
"Howard", C 2K; "St", C 2K; "1320N", C 2K;

23



SNS;
No border, White on Green;
"Ivy", C 2K; "Ave", C 2K; "2170E", C 2K;

24



SNS;
No border, White on Green;
"Howard", C 2K; "St", C 2K; "1380N", C 2K;

REVISION 7 DESCRIPTION:

* The base design (faded background) is a copy of the corresponding sheet from The Heights Site Redevelopment, Revision 6, dated 09/23/2024, produced by WSB. The certification below by Civil Methods, Inc. applies only to the Revision 7 modifications shown on this sheet, done in response to comments from the City of St. Paul. Detailed descriptions of Revision 7 changes are included in a separately provided comment log.

Tree locations depicted in the base design are from Revision 6 and have since been updated. Refer to Landscape Plans by LHB for tree locations.

COMMENT #15 ADDRESSED ON THIS SHEET (SEE COMMENT LOG): 6-145, 6-146, 6-147, 6-148, 6-149, 6-150

NO.	DESCRIPTION	DATE
7	Address Rev 6 Comments	7/31/2025

DESIGNED: _____
DRAWN: KEB
CHECKED: DMP

I HEREBY CERTIFY THAT THIS PLAN*, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Kent E. Brander
KENT E. BRANDER
DATE: 07-31-2025
LIC. #: 44578

CIVIL METHODS, INC.
P.O. Box 28038
St. Paul, MN 55128
PH: 763.210.5713 www.civilmethods.com

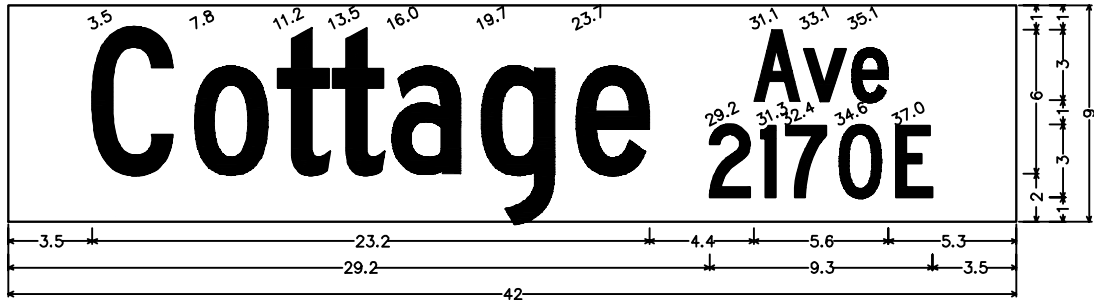
OWNER: Saint Paul
Port Authority
400 Wabasha St N
Ste 240
St. Paul, MN 55102
Phone 612-224-5686

PROJECT: INFRASTRUCTURE
PLANS FOR:
THE HEIGHTS
SAINT PAUL,
MINNESOTA

**SIGNING AND
STRIPING
DETAILS**

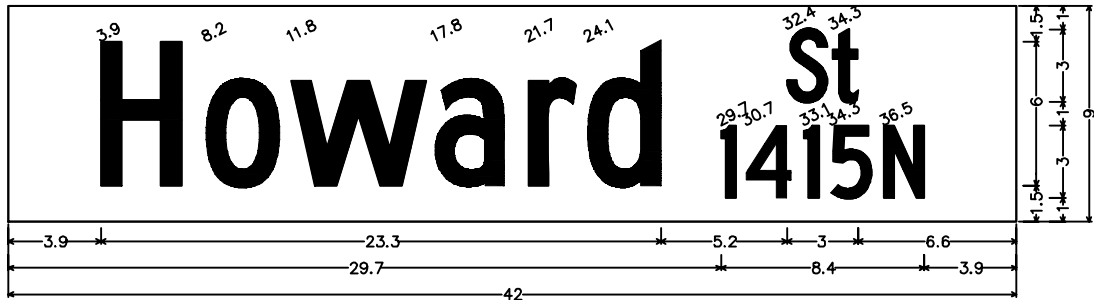
CURRENT REVISION SHEET NO.:
344-R

25



SNS;
No border, White on Green;
"Cottage", C 2K; "Ave", C 2K; "2170E", C 2K;

26



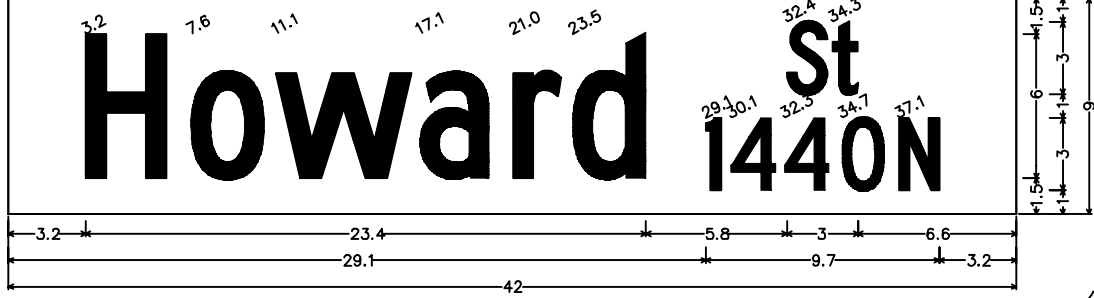
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No border, White on Green;
"Howard", C 2K; "St", C 2K; "1415N", C 2K;

27



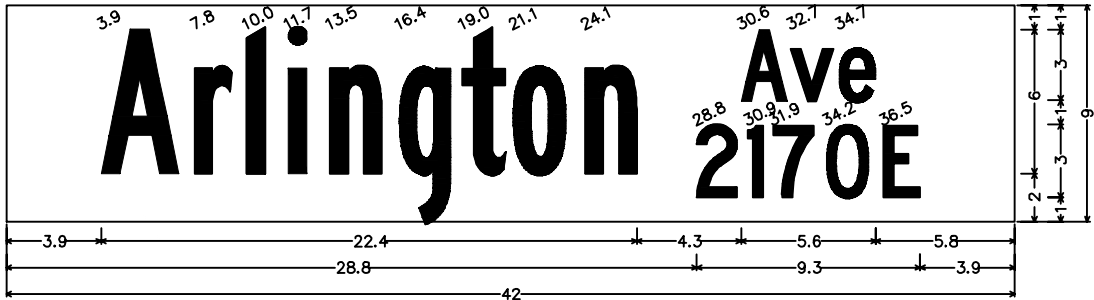
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28



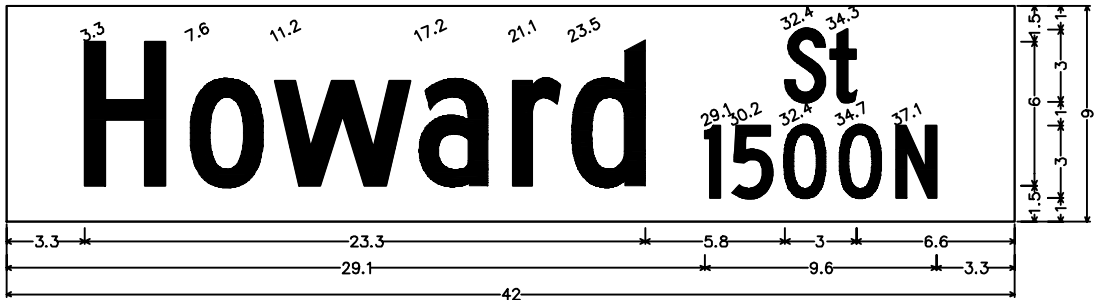
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29



SNS;
No border, White on Green;
"Arlington", B 2K; "Ave", C 2K; "2170E", C 2K;

30



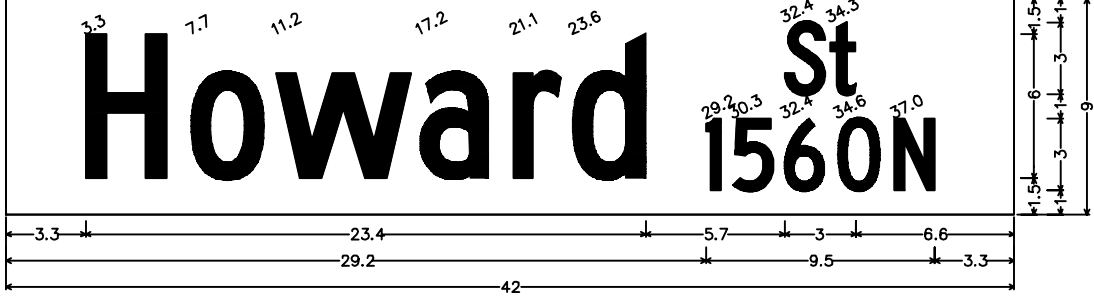
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No border, White on Green;
"Howard", C 2K; "St", C 2K; "1500N", C 2K;

31



SNS;
No border, White on Green;
"Nebraska", B 2K; "Ave", C 2K; "2170E", C 2K;

32



SNS;
No border, White on Green;
"Howard", C 2K; "St", C 2K; "1560N", C 2K;

REVISION 7 DESCRIPTION:

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COMMENT #1'S ADDRESSED ON THIS SHEET (SEE COMMENT LOG): 6-151, 6-152, 6-153, 6-154, 6-155, 6-156, 6-157, 6-158

NO.	DESCRIPTION	DATE
7	Address Rev 6 Comments	7/31/2025

DESIGNED: _____
DRAWN: KEB
CHECKED: DMP

I HEREBY CERTIFY THAT THIS PLAN*, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Kent E. Brander
KENT E. BRANDER
DATE: 07-31-2025
LIC. #: 44578

CIVIL METHODS, INC.
P.O. Box 28038
St. Paul, MN 55128
PH: 763.210.5713 www.civilmethods.com

OWNER: Saint Paul Port Authority
400 Wabasha St N
Ste 240
St. Paul, MN 55102
Phone 612-224-5686

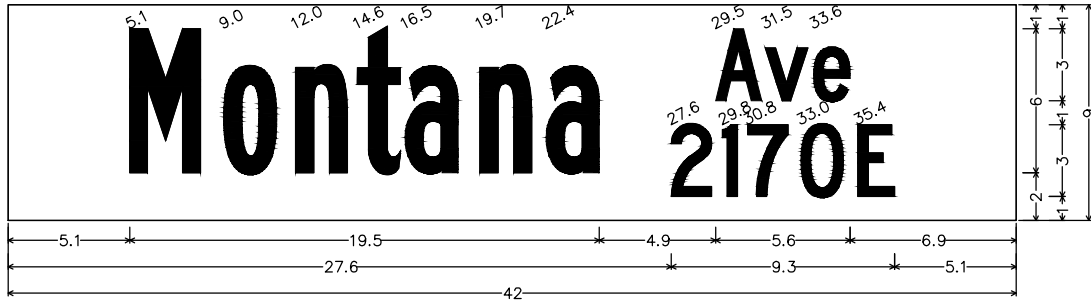
PROJECT: INFRASTRUCTURE PLANS FOR: THE HEIGHTS SAINT PAUL, MINNESOTA

SIGNING AND STRIPING DETAILS

CURRENT REVISION SHEET NO.: **345-R**

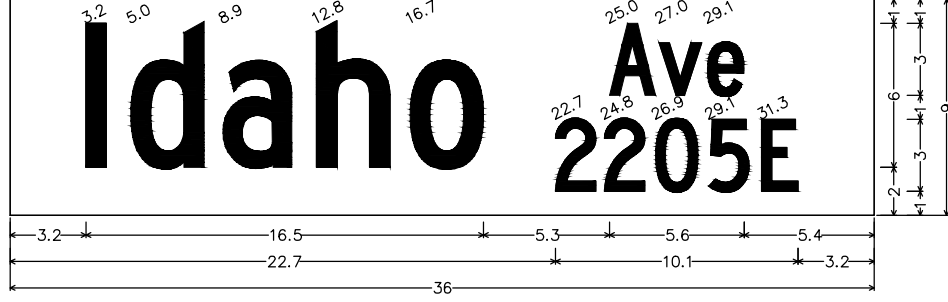
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33



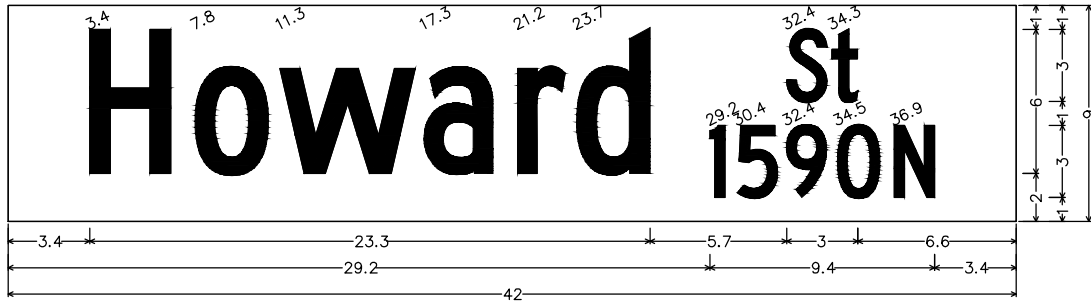
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No border, White on Green;
"Montana", B 2K; "Ave", C 2K; "2170E", C 2K;

37



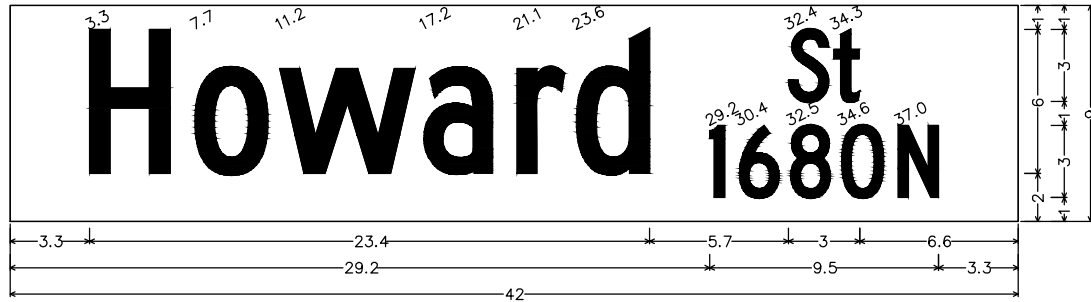
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No border, White on Green;
"Idaho", C 2K; "Ave", C 2K; "2205E", C 2K;

34



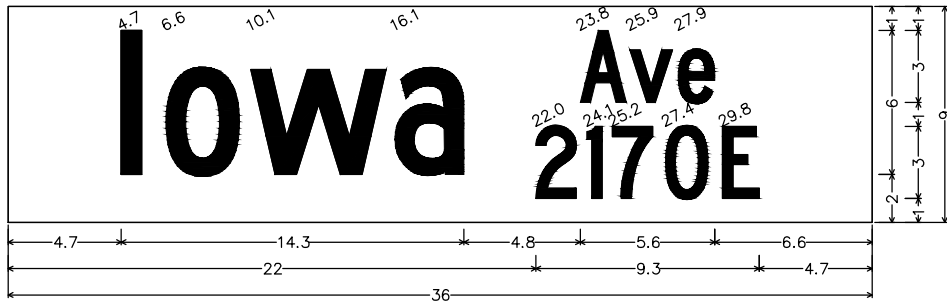
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38



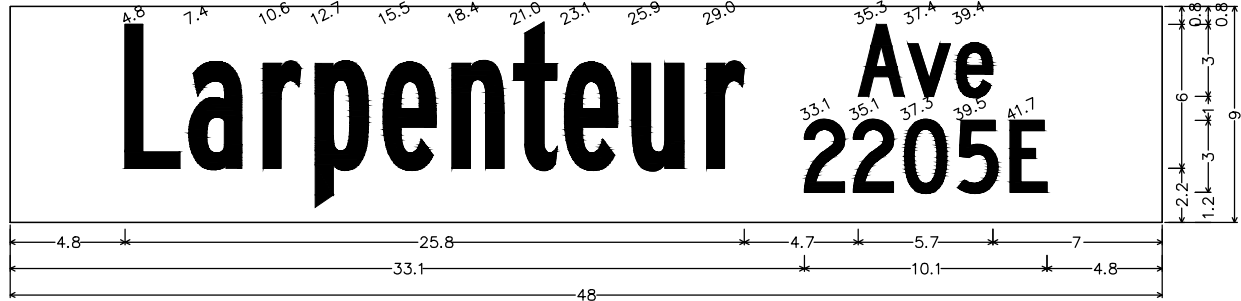
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No border, White on Green;
"Howard", C 2K; "St", C 2K; "1680N", C 2K;

35



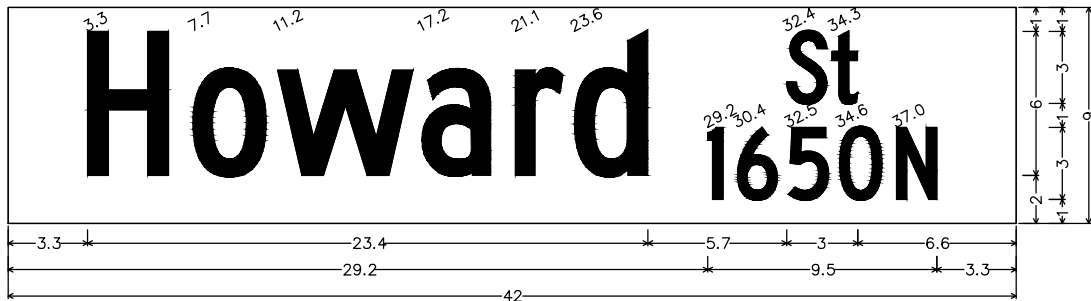
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No border, White on Green;
"Iowa", C 2K; "Ave", C 2K; "2170E", C 2K;

39



SNS;
No border, White on Green;
"Larpenteur", B 2K; "Ave", C 2K; "2205E", C 2K;

36



SNS;
No border, White on Green;
"Howard", C 2K; "St", C 2K; "1650N", C 2K;

40



SNS;
No border, White on Green;
"McKnight", B 2K; "Rd", C 2K; "1320N", C 2K;

CMI NOTE: SEE ALSO
SHEET 346-R, REV. 7
(CIVIL METHODS, INC.)

SCALE: AS SHOWN
DESIGN BY: PJM
PLAN BY: DEH
CHECK BY: PTH

REVISIONS

NO.	DATE	DESCRIPTION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PAUL HORNBY, P.E.
DATE: 03/29/2024 LIC. NO.: 23359

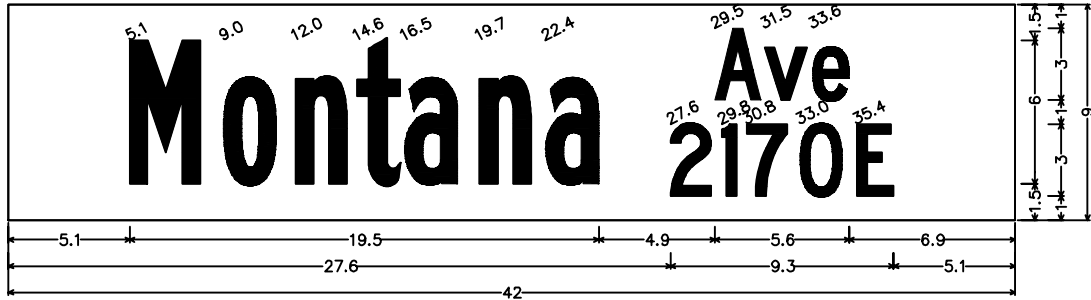
SIGNING AND
STRIPING
DETAILS

INFRASTRUCTURE PLANS FOR:
THE HEIGHTS
SAINT PAUL, MINNESOTA

Saint Paul
Port Authority
400 Wabasha Street North
Suite 240
St Paul, Minnesota 55102
Phone 612-224-5686

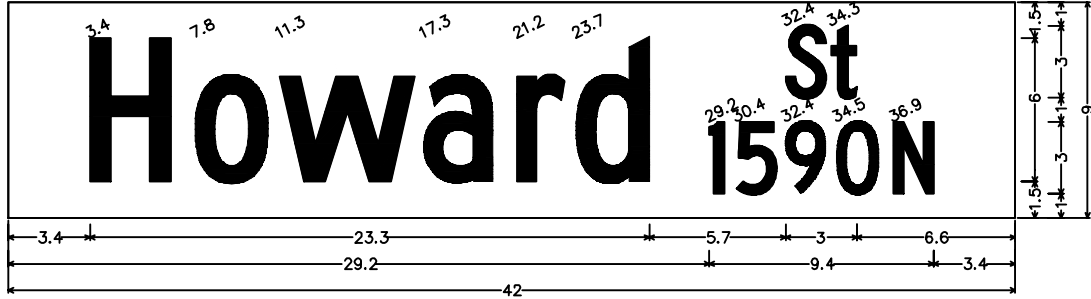
WSB PROJECT NO.
013987-000

33



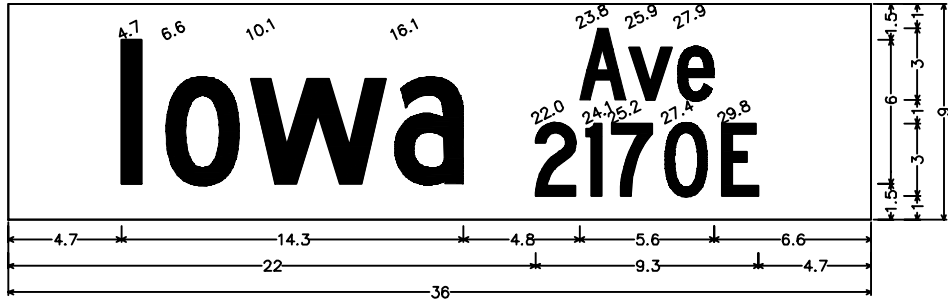
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34



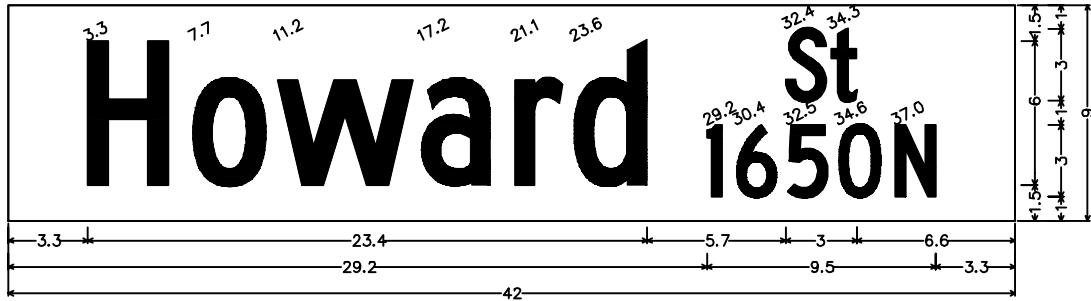
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35



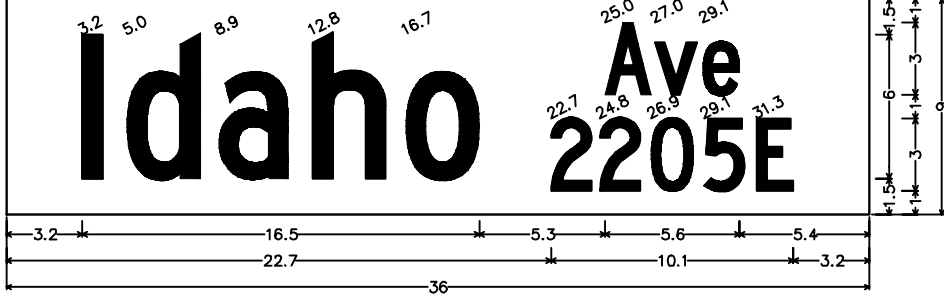
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36



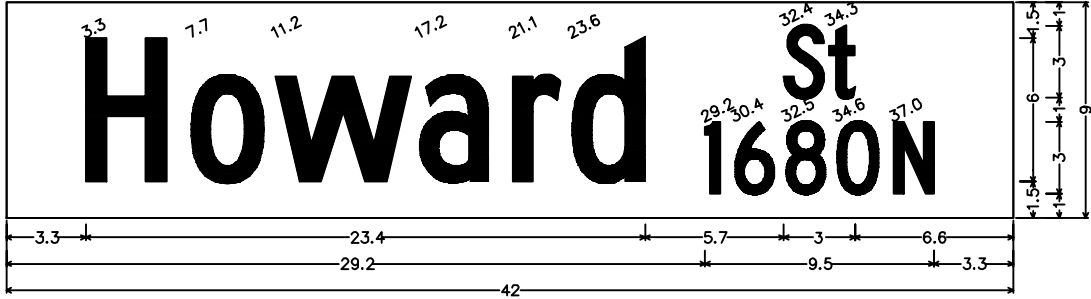
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37



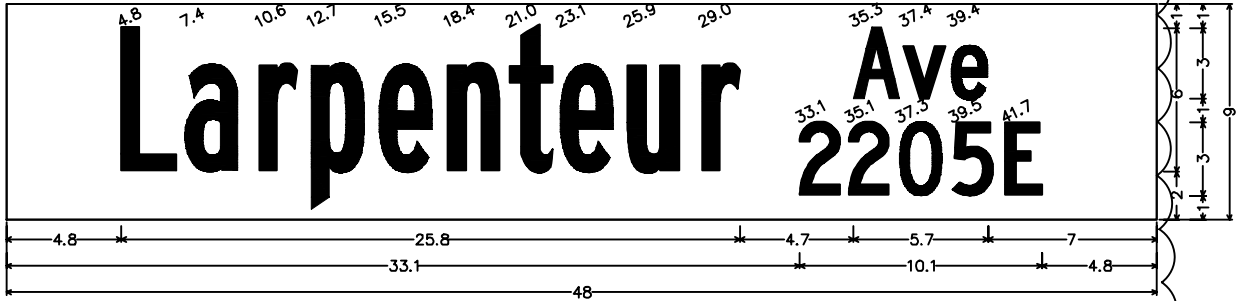
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38



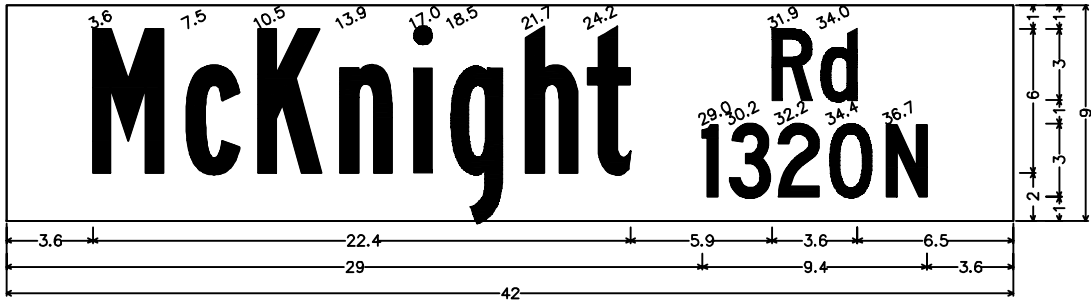
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"Howard", C 2K; "St", C 2K; "1680N", C 2K;

39



SNS;
No border, White on Green;
"Larpenteur", B 2K; "Ave", C 2K; "2205E", C 2K;

40



SNS;
No border, White on Green;
"McKnight", B 2K; "Rd", C 2K; "1320N", C 2K;

REVISION 7 DESCRIPTION:

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COMMENT #15 ADDRESSED ON THIS SHEET (SEE COMMENT LOG): 6-159, 6-160, 6-161, 6-162, 6-163, 6-164, 6-165, 6-166

NO.	DESCRIPTION	DATE
7	Address Rev 6 Comments	7/31/2025

DESIGNED:

DRAWN: KEB

CHECKED: DMP

I HEREBY CERTIFY THAT THIS PLAN*, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Kent E. Brander
KENT E. BRANDER

DATE: 07-31-2025

LIC. #: 44578

CIVIL METHODS, INC.
P.O. Box 28038
St. Paul, MN 55128
PH: 763.210.5713 www.civilmethods.com

OWNER: Saint Paul
Port Authority
400 Wabasha St N
Ste 240
St. Paul, MN 55102
Phone 612-224-5686

PROJECT:
INFRASTRUCTURE
PLANS FOR:
THE HEIGHTS
SAINT PAUL,
MINNESOTA

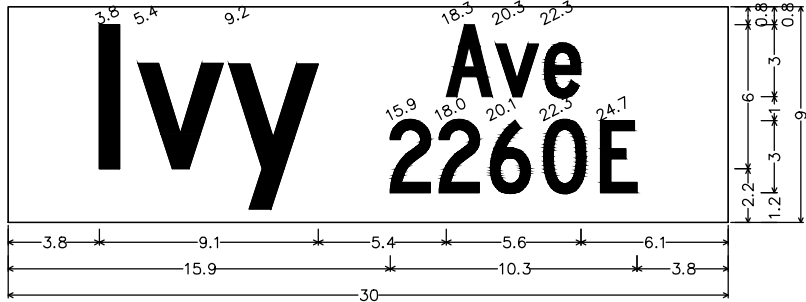
**SIGNING AND
STRIPING
DETAILS**

CURRENT REVISION SHEET NO.:

346-R

K:\013987-000\Cad\Plan\SUBMITTAL\013987-000-C-SIGN-DET.dwg 10/17/2024 7:50:52 AM

41



SNS;
No border, White on Green;
"Ivy", C 2K; "Ave", C 2K; "2260E", C 2K;

42



SNS;
No border, White on Green;
"McKnight", B 2K; "Rd", C 2K; "1415N", C 2K;

43



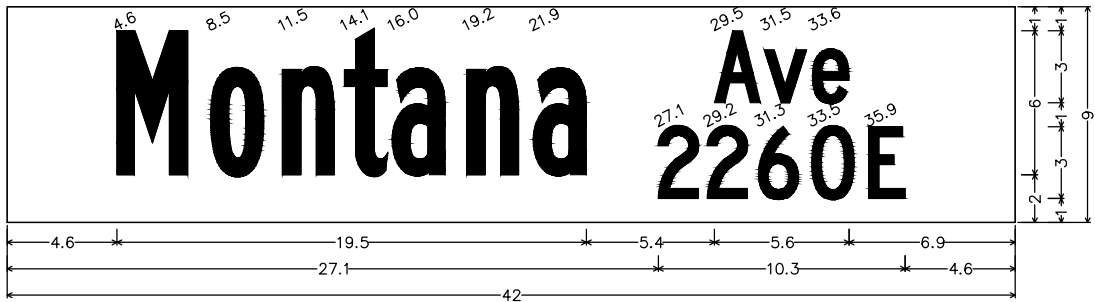
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44



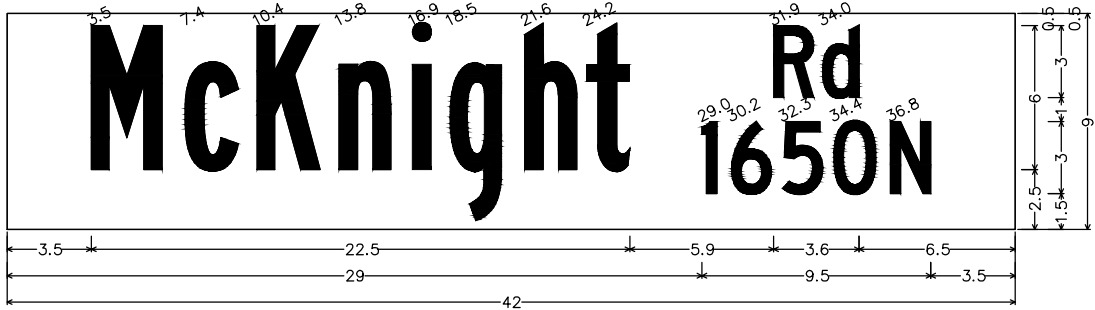
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No border, White on Green;
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45



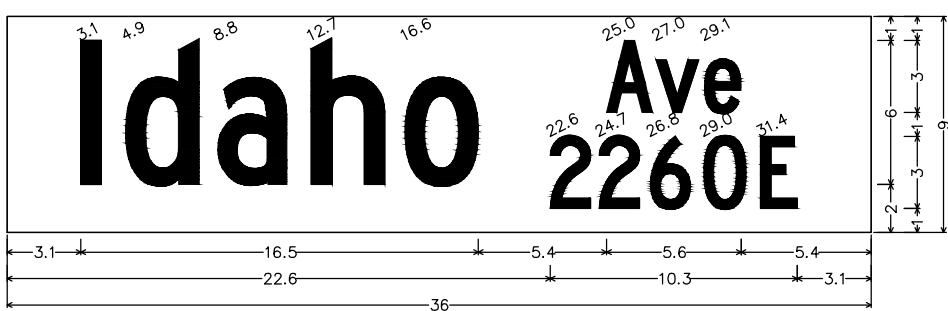
SNS;
No border, White on Green;
"Montana", B 2K; "Ave", C 2K; "2260E", C 2K;

46



SNS;
No border, White on Green;
"McKnight", B 2K; "Rd", C 2K; "1650N", C 2K;

47



SNS;
No border, White on Green;
"Idaho", C 2K; "Ave", C 2K; "2260E", C 2K;

CMI NOTE: SEE ALSO
SHEET 347-R, REV. 7
(CIVIL METHODS, INC.)

SCALE: AS SHOWN
DESIGN BY: PJM
PLAN BY: DEH
CHECK BY: PTH

REVISIONS

NO.	DATE	DESCRIPTION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PAUL HORNBY, P.E.
DATE: 03/29/2024 LIC. NO. 23359

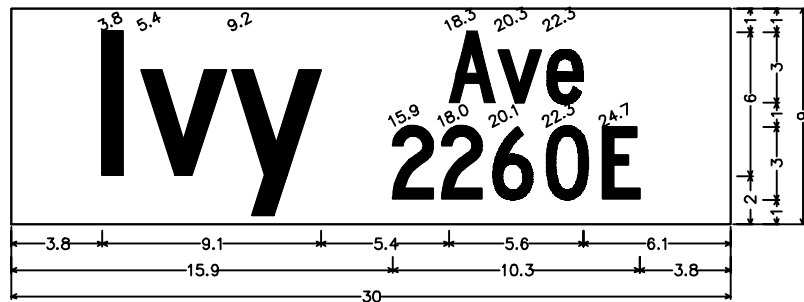
SIGNING AND
STRIPING
DETAILS

INFRASTRUCTURE PLANS FOR:
THE HEIGHTS
SAINT PAUL, MINNESOTA

Saint Paul
Port Authority
400 Wabasha Street North
Suite 240
St Paul, Minnesota 55102
Phone 612-224-5686

WSB PROJECT NO.
013987-000

41



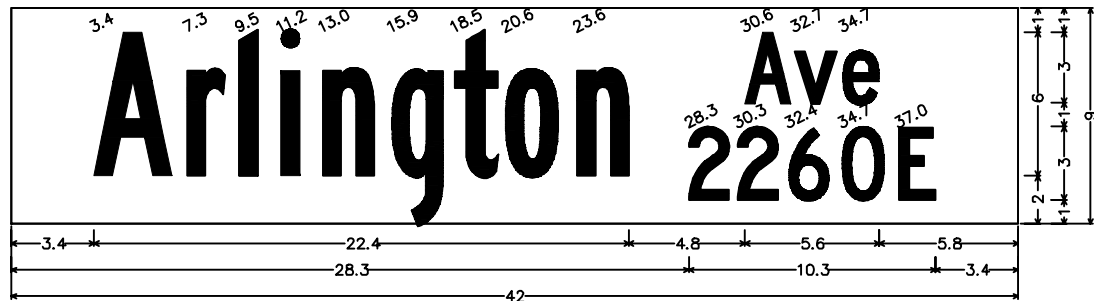
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"Ivy", C 2K; "Ave", C 2K; "2260E", C 2K;

42



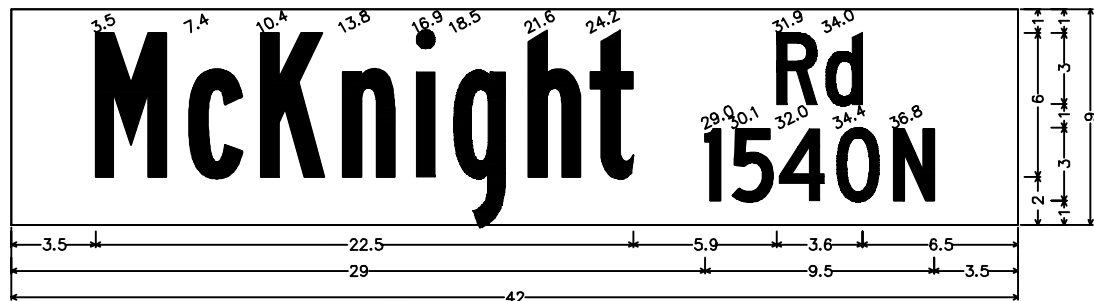
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No border, White on Green;
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43



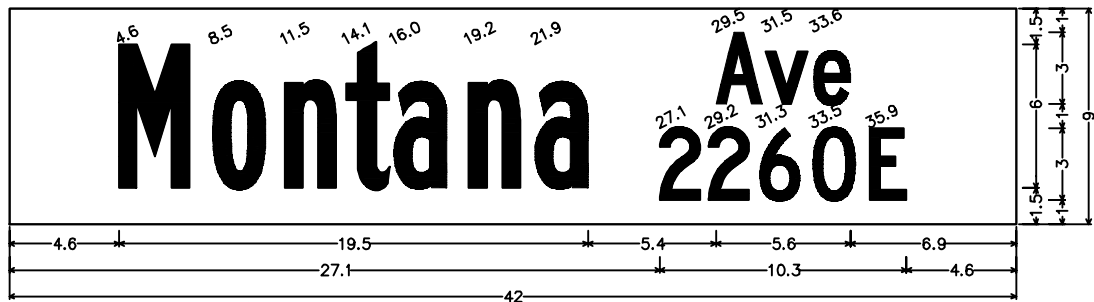
SNS;
No border, White on Green;
"Arlington", B 2K; "Ave", C 2K; "2260E", C 2K;

44



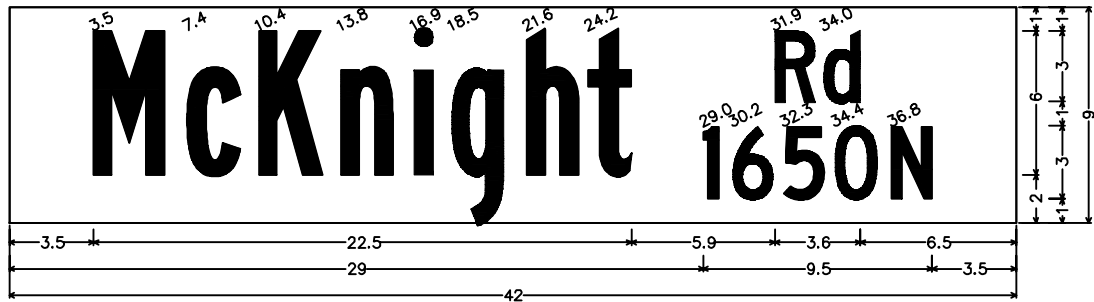
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No border, White on Green;
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45



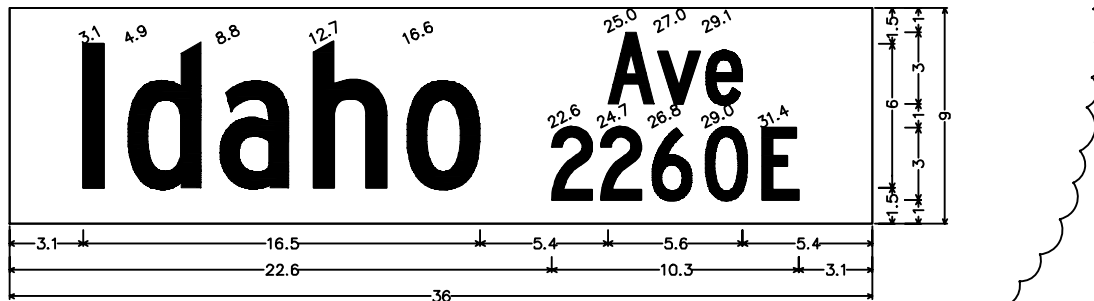
SNS;
No border, White on Green;
"Montana", B 2K; "Ave", C 2K; "2260E", C 2K;

46



SNS;
No border, White on Green;
"McKnight", B 2K; "Rd", C 2K; "1650N", C 2K;

47



SNS;
No border, White on Green;
"Idaho", C 2K; "Ave", C 2K; "2260E", C 2K;

REVISION 7 DESCRIPTION:

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COMMENT #1'S ADDRESSED ON THIS SHEET (SEE COMMENT LOG): 6-157, 6-168, 6-169, 6-170, 6-171, 6-172, 6-173

NO.	DESCRIPTION	DATE
7	Address Rev 6 Comments	7/31/2025

DESIGNED:

DRAWN: KEB

CHECKED: DMP

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Kent E. Brander
KENT E. BRANDER

DATE: 07-31-2025

LIC. #: 44578

CIVIL METHODS, INC.

P.O. Box 28038
St. Paul, MN 55128
PH: 763.210.5713 www.civilmethods.com

OWNER:

Saint Paul
Port Authority
400 Wabasha St N
Ste 240
St. Paul, MN 55102
Phone 612-224-5686

PROJECT:

INFRASTRUCTURE
PLANS FOR:
THE HEIGHTS
SAINT PAUL,
MINNESOTA

SIGNING AND
STRIPING
DETAILS

CURRENT REVISION SHEET NO.:

347-R